Pioneer sound.vision.soul



PION -05988

Service Manual



ORDER NO. **RRV2564**

DVD PLAYER DV-S733A DV-747A

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S)

Tuno		Model				
Туре	DV-47A	DV-S733A	DV-747A	Power Requirement	Region No.	Remarks
KUXJ/CA	0	_	-	AC120V	1	
LBXJ	_	0	_	AC110V	3	
WLXJ/NC	-	0	_	AC220-240V	3	
WLXJ/RD	_	0	_	AC220-240V	4	
WYXJ	-	_	0	AC220-240V	2	

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PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2001

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

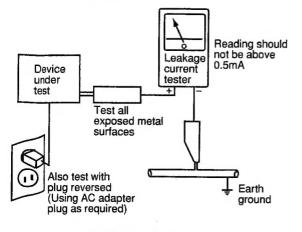
$_{ extsf{-}}$ (FOR USA MODEL ONLY) $_{ extsf{--}}$

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

WARNING !

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1.

A SPECIALLY INSTRUCTED PERSON SHOULD DO SERVICING OPERATION OF THE APPARATUS.

- LASER DIODE CHARACTERISTICS

FOR DVD: MAXIMUM OUTPUT POWER: 5 mW

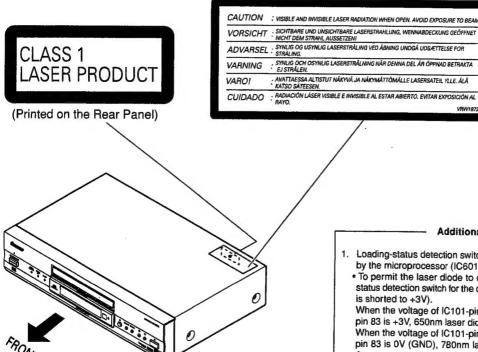
WAVELENGTH: 655 nm

FOR CD: MAXIMUM OUTPUT POWER: 5 mW

WAVELENGTH: 785 nm

LABEL CHECK

WLXJ/NC, WLXJ/RD and WYXJ types



Additional Laser Caution

- Loading-status detection switch (S101 on the LOAB assy) are detected by the microprocessor (IC601 in the DVDM assy).
 - To permit the laser diode to oscillate, it is required to set the loadingstatus detection switch for the clamp position (the center terminal of \$101 is shorted to +3V).

When the voltage of IC101-pin 20 is +3V and IC601 (microprocessor) - pin 83 is +3V, 650nm laser diode for DVD oscillates in the DVDM Assy. When the voltage of IC101-pin 20 is +3V and IC601 (microprocessor) - pin 83 is 0V (GND), 780nm laser diode for CD oscillates in the DVDM Assy.

In the test mode *, the laser diode oscillates when microprocessor detects a PLAY signal, or when the PLAY key is pressed (S252 ON in the KEYB assy), with the above requirements satisfied.

- When the cover is open, close viewing through the objective lens with the naked eye will cause exposure to the laser beam.
- * : See page 72.

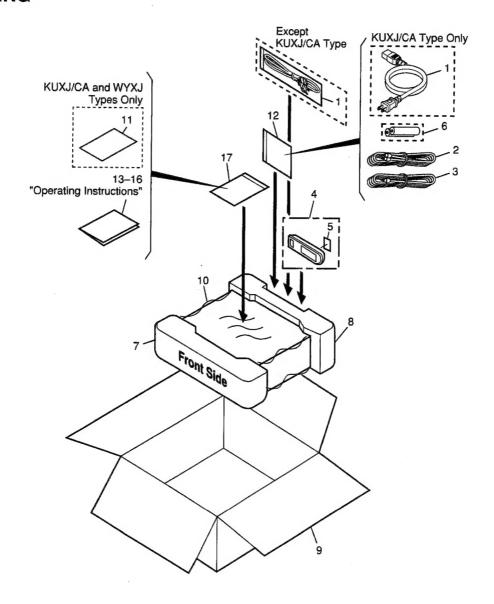
2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

 ■ Screws adjacent to ▼ mark on the product are used for disassembly.

2.1 PACKING



(1) PACKING PARTS LIST

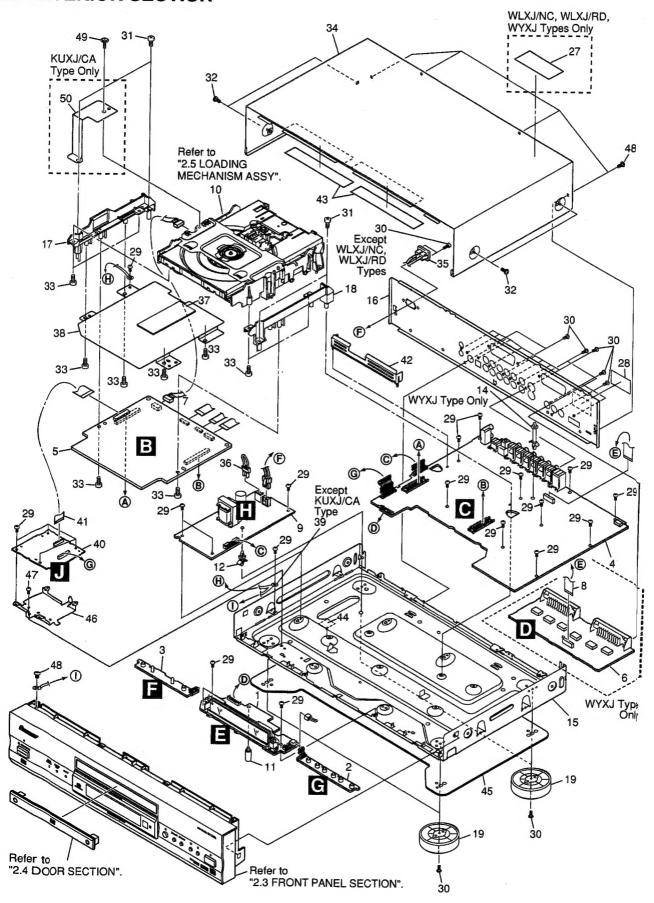
Mark	No.	Description	Part No.
$\mathbf{\Delta}$	1	Power Cord	See Contrast table (2)
	2	Audio Cable (L = 1.5m)	VDE1052
	3	Video Cable (L = 1.5m)	VDE1053
	4	Remote Control Unit	See Contrast table (2)
	5	Battery Cover	See Contrast table (2)
NSP	6	Dry Cell Battery (R6P, AA)	VEM-013
	7	Pad F	VHA1288
	8	Pad R	VHA1289
	9	Packing Case	See Contrast table (2)
	10	Mirror Mat Sheet	Z23-007
NSP	11	Warranty Card	See Contrast table (2)
	12	Polyethylene Bag	VHL1051
	13	Operating Instructions (English)	See Contrast table (2)
	14	Operating Instructions (Trad-Chinese)	See Contrast table (2)
	15	Operating Instructions (English/French/German/Italian)	See Contrast table (2)
	16	Operating Instructions (Spanish/Portuguese/Dutch/Swe	See Contrast table (2) edish)
	17	Polyethylene Bag	See Contrast table (2)

(2) CONTRAST TABLE

DV-47A/KUXJ/CA, DV-S733A/LBXJ, WLXJ/NC, WLXJ/RD and DV-747A/WYXJ are constructed the same except for the following :

					Part No.			
Mark	No.	Symbol and Description			DV-S733A /WLXJ/NC			Remarks
Δ	1	Power Cord	ADG7061	ADG7060	ADG1154	ADG1154	ADG7062	
	4	Remote Control Unit	VXX2714	VXX2713	VXX2713	VXX2713	VXX2785	
	5	Battery Cover	VNK4423	VNK4422	VNK4422	VNK4422	VNK4936	
	9	Packing Case	VHG2142	VHG2138	VHG2139	VHG2140	VHG2141	
NSP	11	Warranty Card	ARY7007	Not used	Not used	Not used	ARY7022	
	13	Operating Instructions (English)	VRB1278	VRB1278	VRB1278	VRB1278	Not used	
	14	Operating Instructions (Trad-Chinese)	Not used	VRC1145	VRC1145	Not used	Not used	
	15	Operating Instructions (English/French/German/Italian)	Not used	Not used	Not used	Not used	VRE1096	
	16	Operating Instructions (Spanish/Portuguse/Dutch/Swedish)	Not used	Not used	Not used	Not used	VRF1059	
NSP	17	Polyethylene Bag	Z21-038	Not used	Not used	Not used	AHG7032	
	17	Polyethylene Bag	Not used	VHL1051	VHL1051	VHL1051	Not used	

2.2 EXTERIOR SECTION



(1) EXTERIOR PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	FLIR Assy	See Contrast table (2)		26		
NSP	2	KEYB Assy	VWG2306		27	Label	See Contrast table (2)
NSP	3	PWSB Assy	See Contrast table (2)	NSP	28	ID Label	VRW1877
	4	AVJB Assy	See Contrast table (2)		29	Screw	BBZ30P060FMC
	5	DVDM Assy	VWS1471		30	Screw	BBZ30P080FZK
	6	SCRB Assy	See Contrast table (2)		31	Screw	BBZ30P180FMC
	7	Connector Assy	PG05KK-E15		32	Screw	See Contrast table (2)
	8	FFC	See Contrast table (2)		33	Screw	PPZ30P080FMC
Δ	9	POWER SUPPLY Unit	VWR1346		34	Bonnet Case S	See Contrast table (2)
NSP	10	Loading Mechanism Assy	VWT1188	Δ	35	AC Inlet Assy	See Contrast table (2)
	11	PCB Support	VEC1266	Δ	36	Housing Assy	VKP2269
	12	PCB Support	VEC2184		37	MH Spacer	VEC2250
	13	••••			38	Mechanism Holder	VNE2266
	14	PCB Holder	See Contrast table (2)		39	Earth Lead Unit	See Contrast table (2)
NSP	15	Chassis	VNA2160	NSP	40	SACD Assy	VWG2331
	16	Rear Panel	See Contrast table (2)		41	Flexible Cable	VDA1879
	17	Adapter27 L	VNL1926		42	Shielding Plate	VNF1124
	18	Adapter27 R	VNL1927		43	Cushion	VEB1336
	19	Insulator	VXA2424		44	Bottom Cushion	VEB1337
	20	••••		NSP	45	Bottom Plate	VNA2345
	21	••••			46	SACD Stay	VNE2258
	22	••••			47	Screw	BBZ30PO40FZK
	23	••••			48	Screw	BBZ30PO80FCC
	24	••••		•	49	Screw	Z39-019
	25	••••			50	Shielding Plate	See Contrast table (2)

(2) CONTRAST TABLE

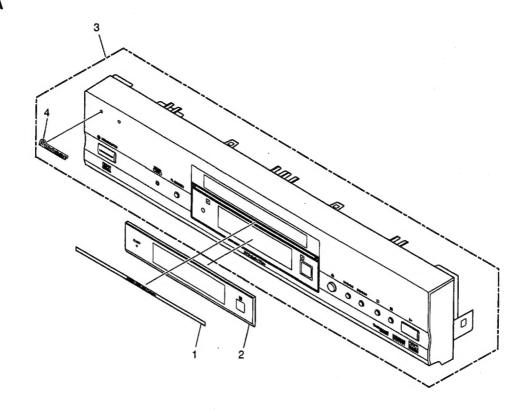
DV-47A/KUXJ/CA, DV-S733A/LBXJ, WLXJ/NC, WLXJ/RD and DV-747A/WYXJ are constructed the same except for the pllowing -

				Part No.							
Mark	NO.	Symbol and Description	DV-47A /KUXJ/CA	DV-S733A /LBXJ	DV-S733A /WLXJ/NC	DV-S733A /WLXJ/RD	DV-747A /WYXJ	Remarks			
	1	FLIR Assy	VWG2327	VWG2325	VWG2324	VWG2324	VWG2326				
NSP	3	PWSB Assy	VWG2312	VWG2310	VWG2310	VWG2310	VWG2311				
	4	AVJB Assy	VWV1874	VWV1877	VWV1875	VWV1875	VWV1876				
	6	SCRB Assy	Not used	Not used	Not used	Not used	VWV1850				
	8	FFC	Not used	Not used	Not used	Not used	VDA1870				
	14	PCB Holder	Not used	Not used	Not used	Not used	VEC2215				
i	16	Rear Panel	VNA2366	VNA2368	VNA2369	VNA2370	VNA2367				
	27	Label	Not used	Not used	VRW1872	VRW1872	VRW1872				
	32	Screw	BCZ40P060FZK	BCZ40P060FNI	BCZ40P060FNI	BCZ40P060FNI	BCZ40P060FN				
	34	Bonnet Case S	VXX2750	VXX2766	VXX2766	VXX2766	VXX2790				
Δ	35	AC Inlet Assy	ADX7406	ADX7405	VKP2268	VKP2268	ADX7405				
NSP	39	Earth Lead Unit	Not used	VDA1903	VDA1903	VDA1903	VDA1903				
	50	Shielding Plate	VNF1125	Not used	Not used	Not used	Not used				

DV-47A, DV-S733A, DV-747A

2.3 FRONT PANEL SECTION

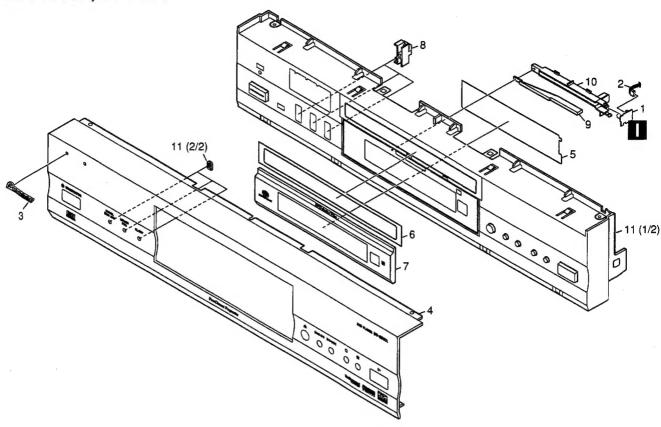
■ DV-47A



• FRONT PANEL PARTS LIST

Mark	No.	Description	Part No.
	1	Sub Plate	VEC2204
	2	FL Lens	VEC2230
	3	Front Panel Assy	VXA2474
	4	Pioneer Name Plate	VAM1109

■ DV-S733A, DV-747A



(1) FRONT PANEL PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	DILB Assy	VWG2322		6	Door Cushion	See Contrast table (2)
	2	Connector Assy	PF02PP-B20		7	FL Lens	See Contrast table (2)
	3	Name Plate	See Contrast table (2)		8	LED Lens	VNK490B
	4	AL Panel	See Contrast table (2)		9	Center Lens	VNK491D
	5	FL Filter	VEC2224		10	Lens Holder	VNK4911
					11	Panel Base Assv	See Contrast table (2)

(2) CONTRAST TABLE

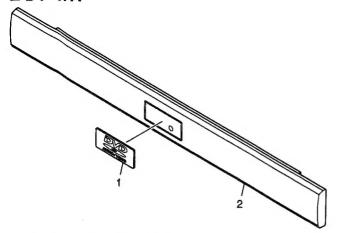
DV-S733A/LBXJ, WLXJ/NC, WLXJ/RD and DV-747A/WYXJ are constructed the same except for the following :

Mark				Part No.					
	No.	Symbol and Description	DV-S733A /LBXJ	DV-S733A /WLXJ/NC	DV-S733A /WLXJ/RD	DV-747A /WYXJ	Remarks		
	4 6 7	Name Plate AL Panel Door Cushion FL Lens Panel Base Assy		PAN1377 VAH1390 VEC2228 VEC2229 VXA2472		VAM1124 VAH1389 VEC2254 VEC2256 VXA2473			

DV-47A, DV-S733A, DV-747A

2.4 DOOR SECTION

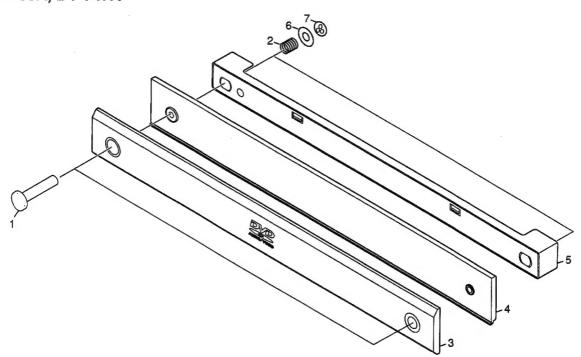
■ DV-47A



DOOR PARTS LIST

Mark	No.	Description	Part No.
	1	DVD-A/V Plate	VAM1118
	2	Tray Panel	VNK4819

■ DV-S733A, DV-747A



(1) DOOR PARTS LIST

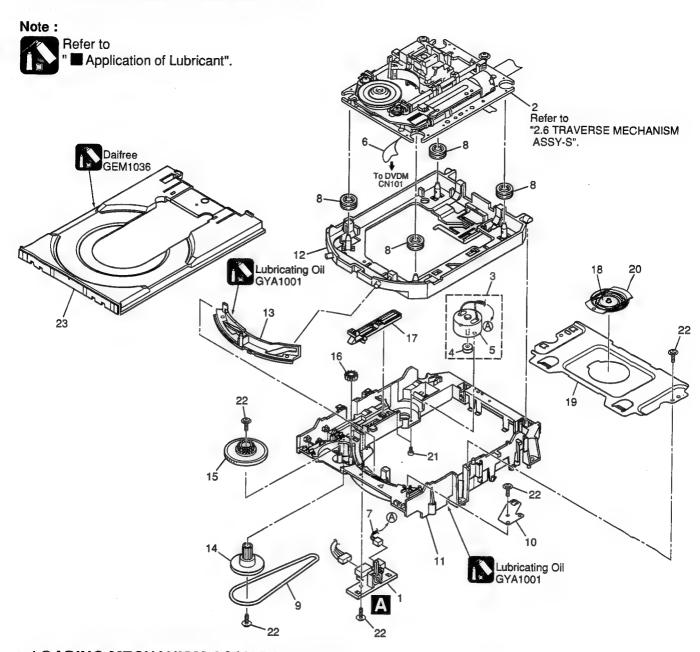
Mark No.	Description	Part No.	Mark	No.	Description	Part No.
3	Rivet Door Spring Door Door Holder Tray Holder	VBA1083 VBH1336 See Contrast table (2) See Contrast table (2) VNK4905		6 7	Washer Retaining Rings	WC30FMC YS20FAC

(2) CONTRAST TABLE

DV-S733A/LBXJ, WLXJ/NC, WLXJ/RD and DV-747A/WYXJ are constructed the same except for the following :

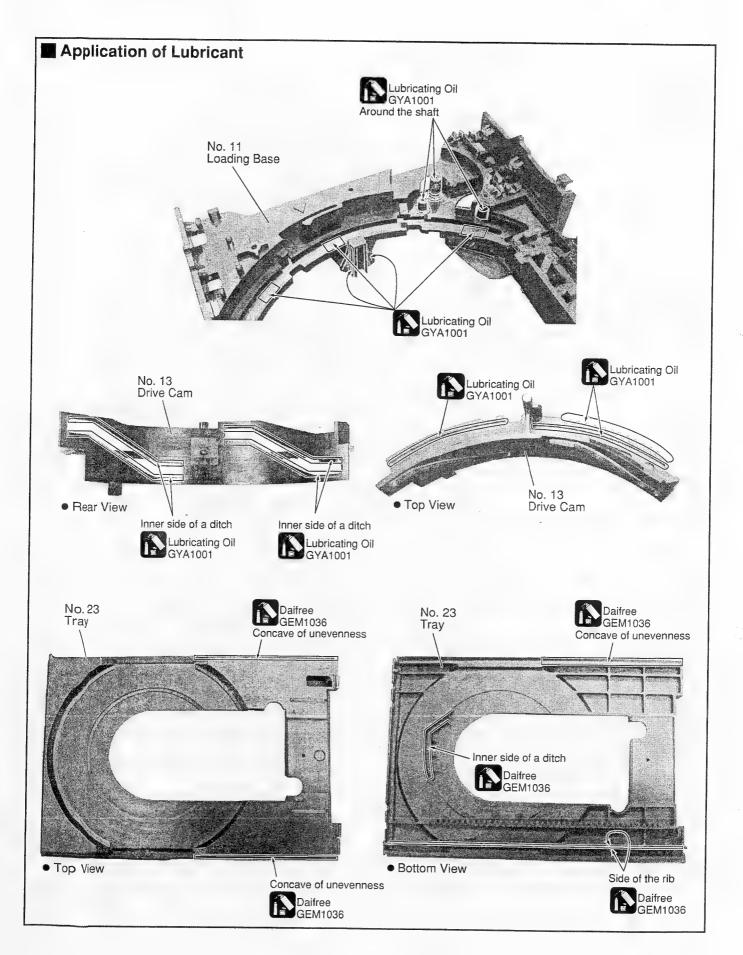
Manta	No.	Symbol and Description					
wark			DV-S733A /LBXJ	DV-S733A /WLXJ/NC	DV-S733A /WLXJ/RD	DV-747A /WYXJ	Remarks
	_	Door Door Holder		VEC2227 VNK4904		VEC2255 VNK4942	

2.5 LOADING MECHANISM ASSY

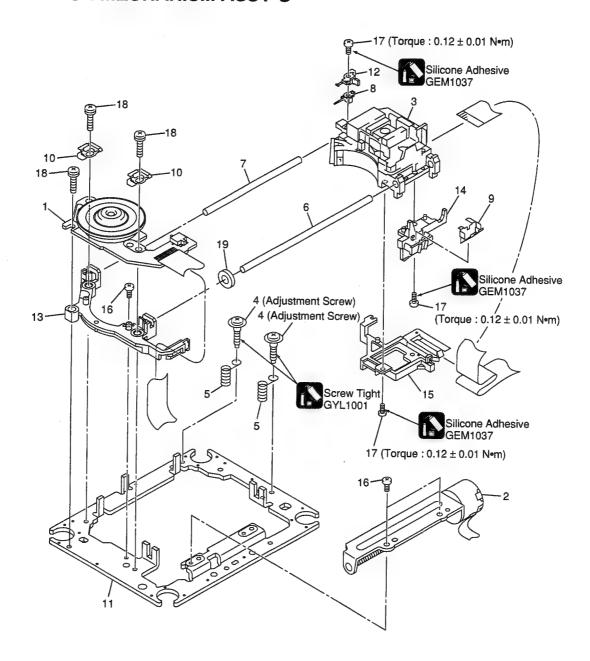


• LOADING MECHANISM ASSY PARTS LIST

Mark	No.	Description	Part No.	Mark No.	Description	Part No.
NSP	1	LOAB Assy	VWG2279	11	Loading Base	VNL1917
	2	Traverse Mechanism Assy-S	VXX2782	12	Float Base DVD	VNL1918
	3	Loading Motor Assy	VXX2505	13	Drive Cam	VNL1919
	4	Motor Pulley	PNW1634	14	Gear Pulley	VNL1921
	5	Carriage DC Motor / 0.3W	PXM1027	15	Loading Gear	VNL1922
	6	Flexible Cable (26P)	VDA1864	16	Drive Gear	VNL1923
	7	Connector Assy 2P	VKP2253	17	SW Lever	VNL1925
	8	Float Rubber	VEB1327	18	Clamper Plate	VNE2251
	9	Belt	VEB1330	19	Bridge	VNE2252
	10	Stabilizer	VNE2253	20	Clamper	VNL1924
				21	Screw	JGZ17P028FMC
				22	Screw	Z39-019
				23	Tray	VNL1920

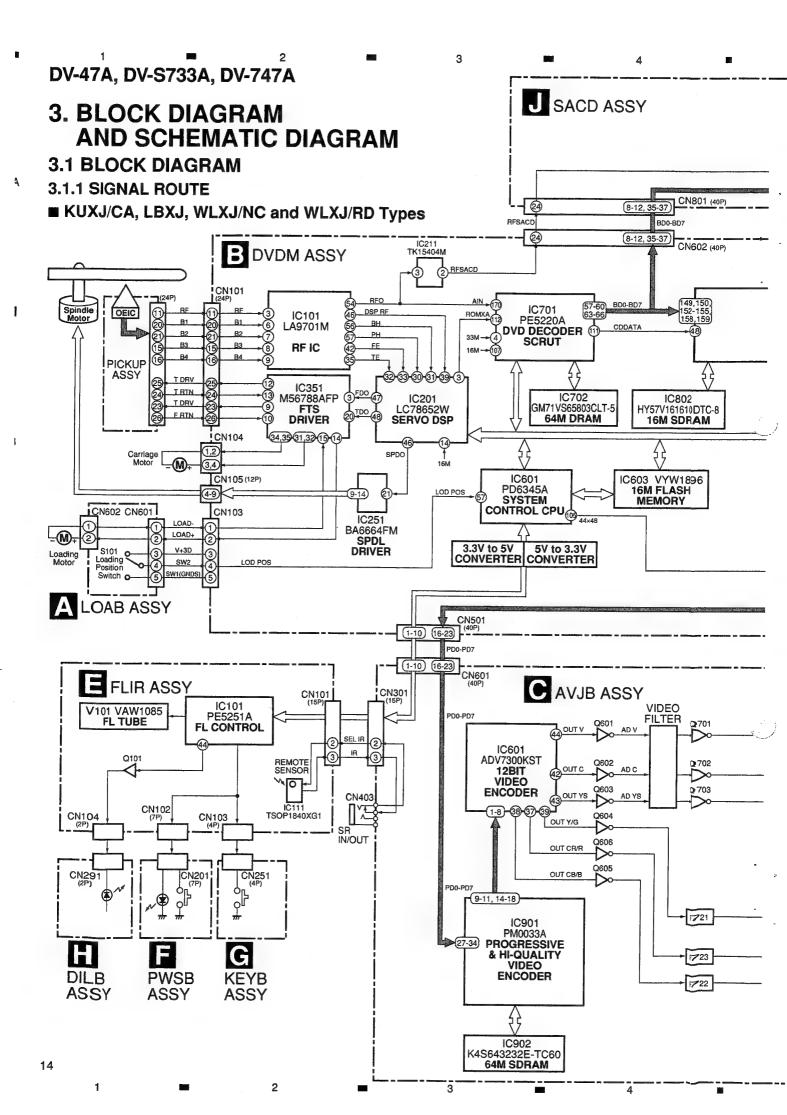


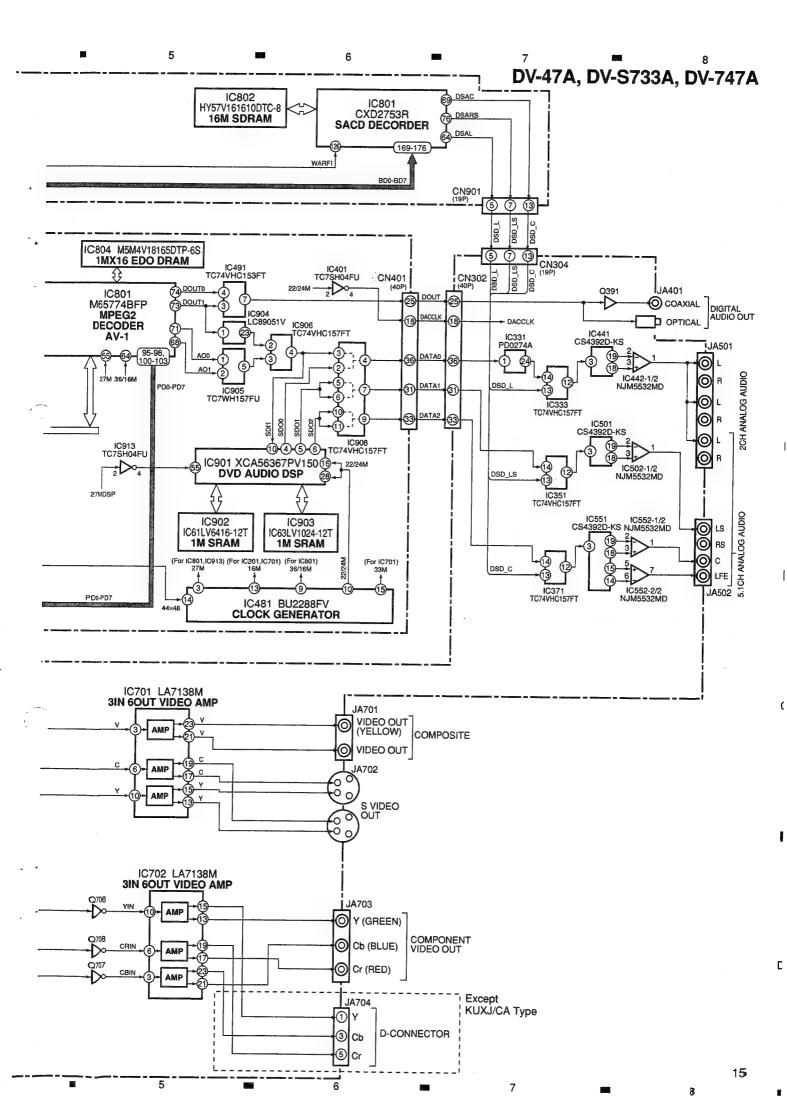
2.6 TRAVERSE MECHANISM ASSY-S

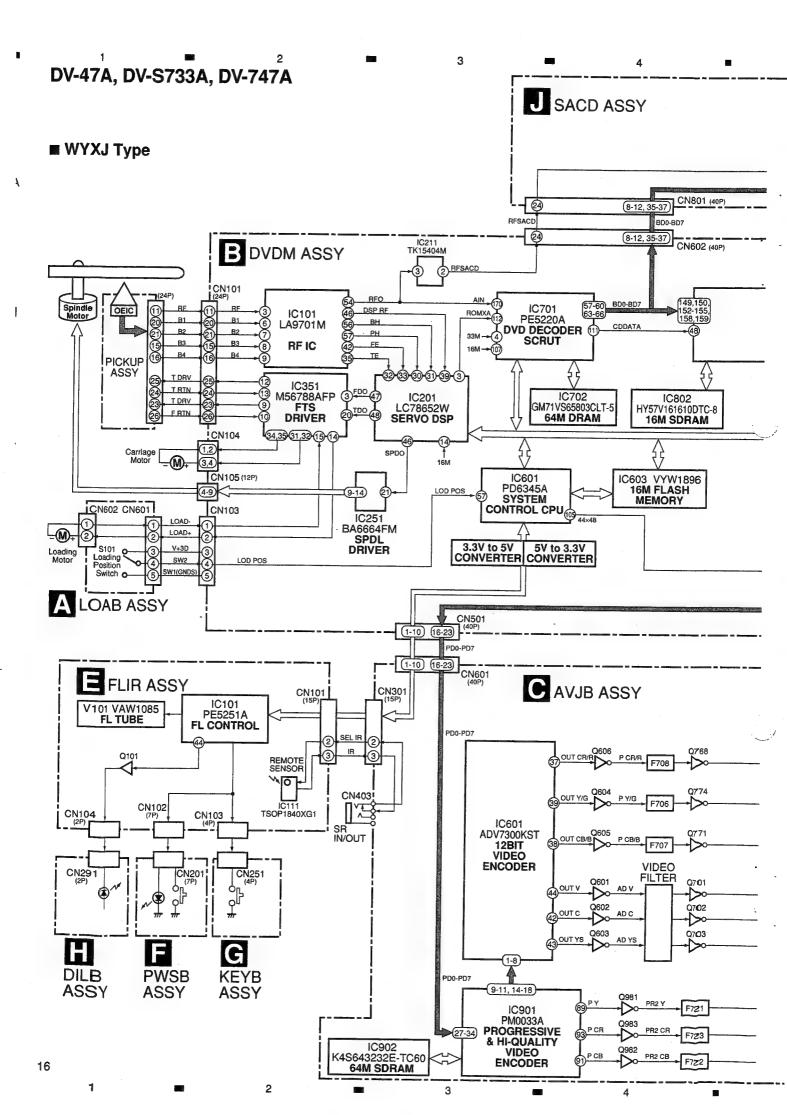


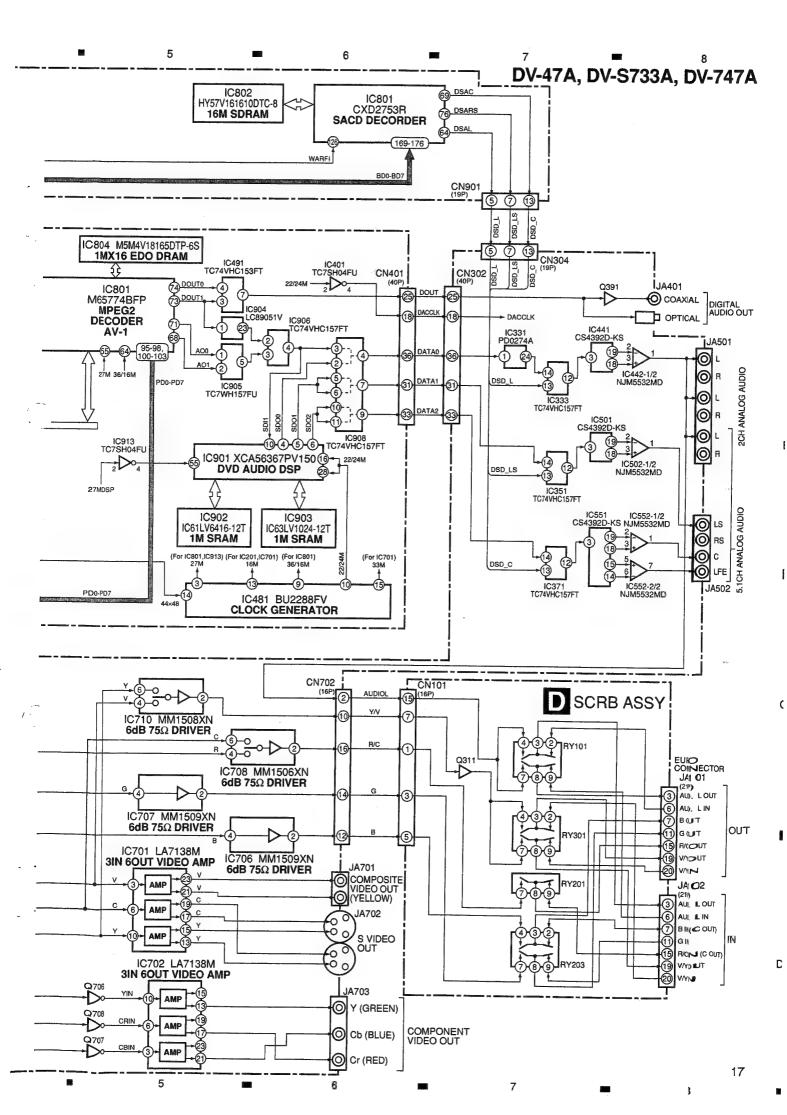
• TRAVERSE MECHANISM ASSY-S PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Spindle Motor	VXM1088 (or VXM1089)	NSP	11 12	Mechanism Chassis Slider	VNE2248 VNL1811
	2	Stepping Motor (CARRIAGE)	VXM1090 (or VXM1091)		13 14	Spacer Joint	VNL1913 VNL1914
	3 4	Pickup Assy-S Skew Screw	OXX8003 VBA1080		15	FFC Holder	VNL1915
	5 6	Skew Spring Guide Bar	VBH1335 VLL1514		16 17 18	Screw Screw	BBZ20P050FZK OBA8009
	7 8	Sub Guide Bar Hold Spring	VLL1515 VNC1017		19	Damper Sheet	PMA26P1 00FMC VEB1335
	9 10	Joint Spring Support Spring	VNC1019 VNC1020				

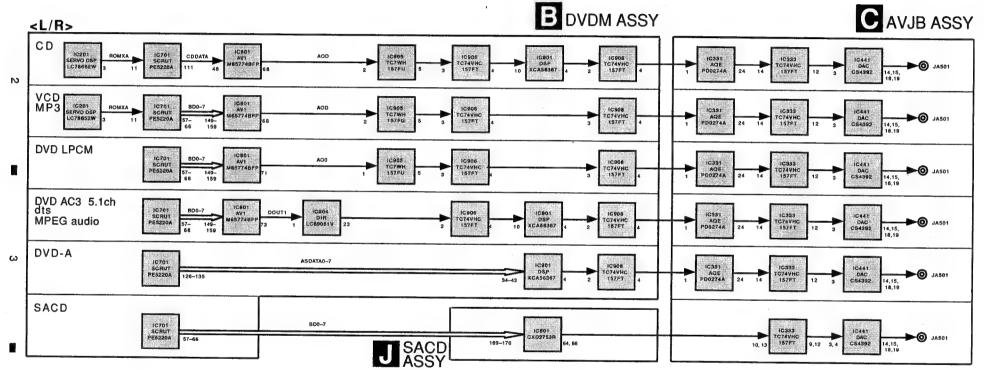


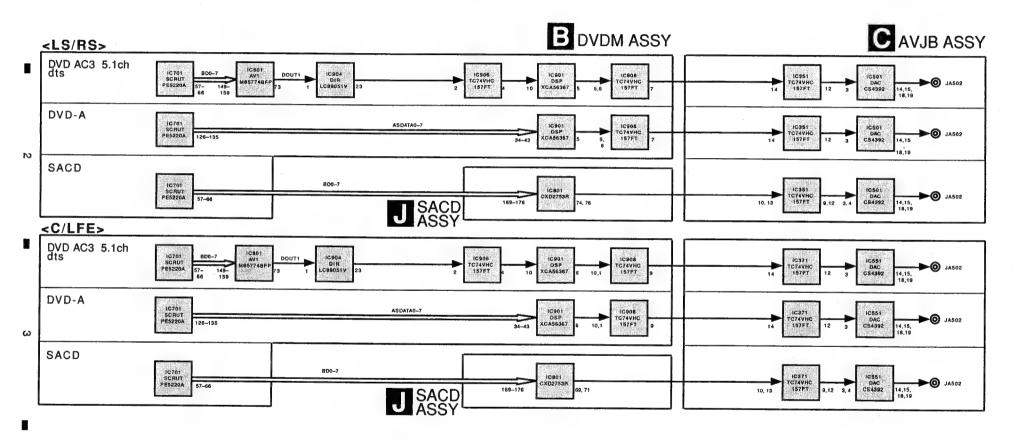




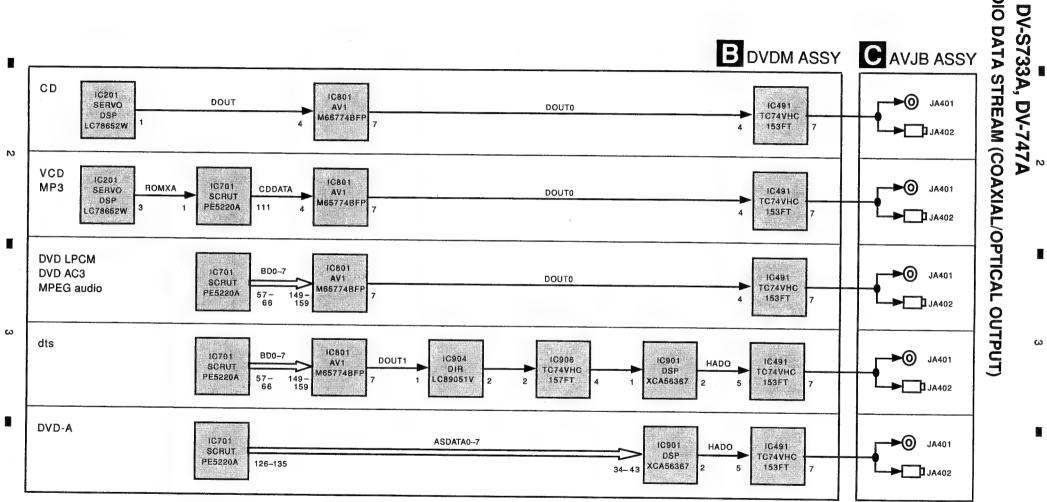




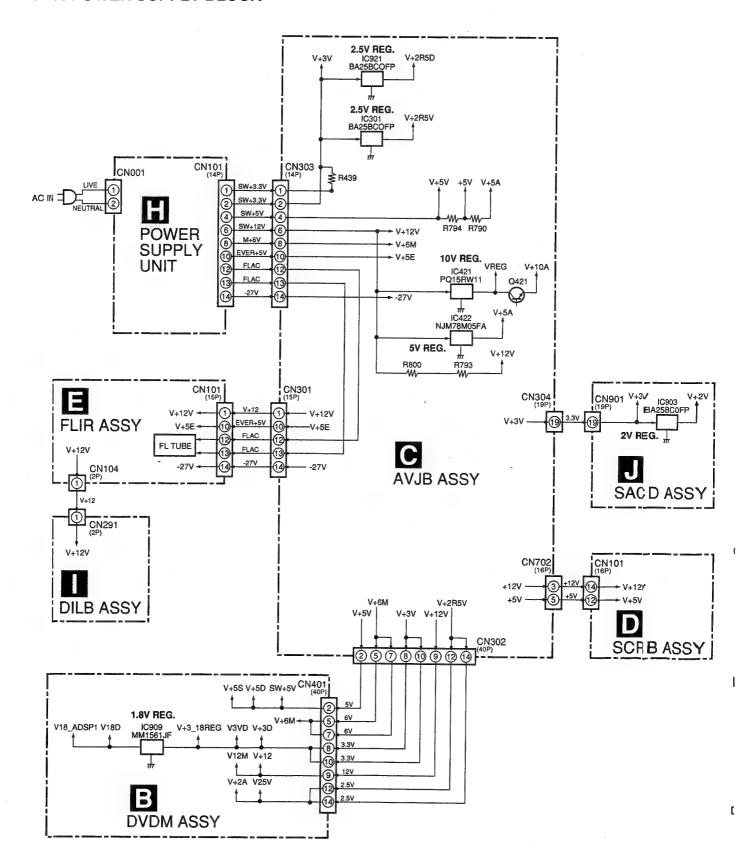








3.1.4 POWER SUPPLY BLOCK

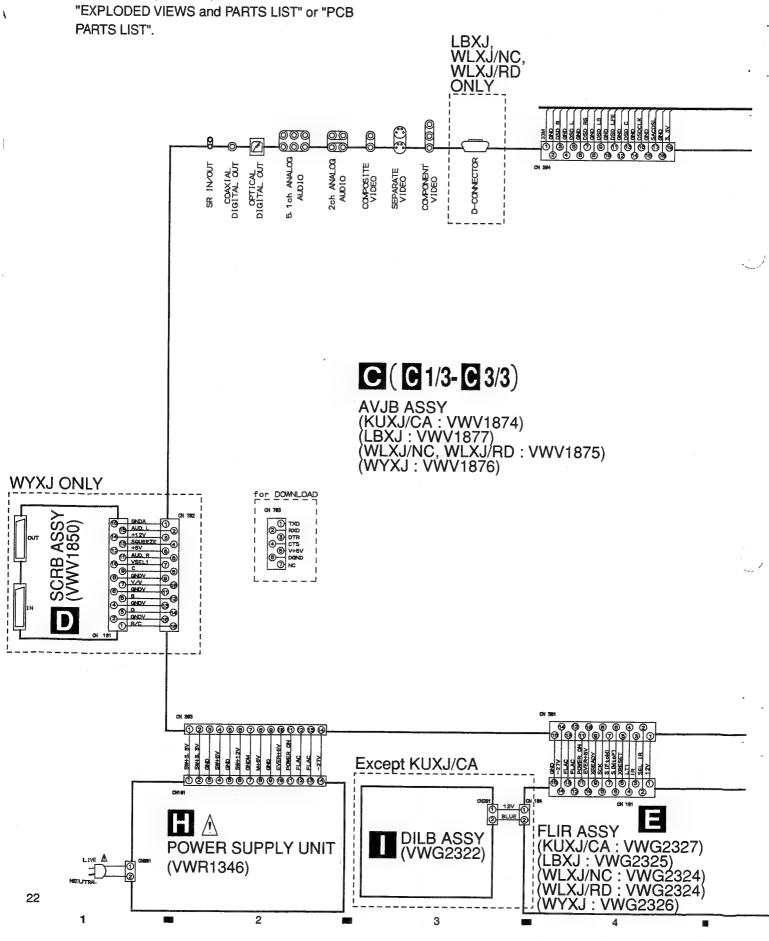


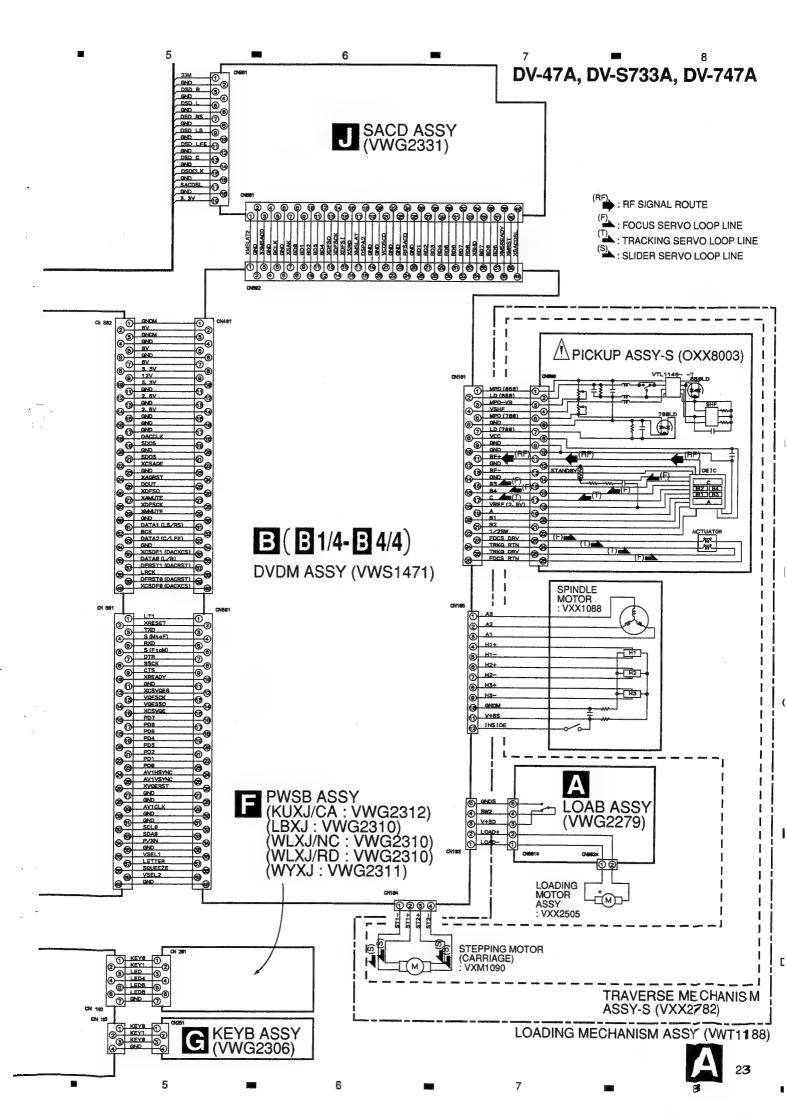
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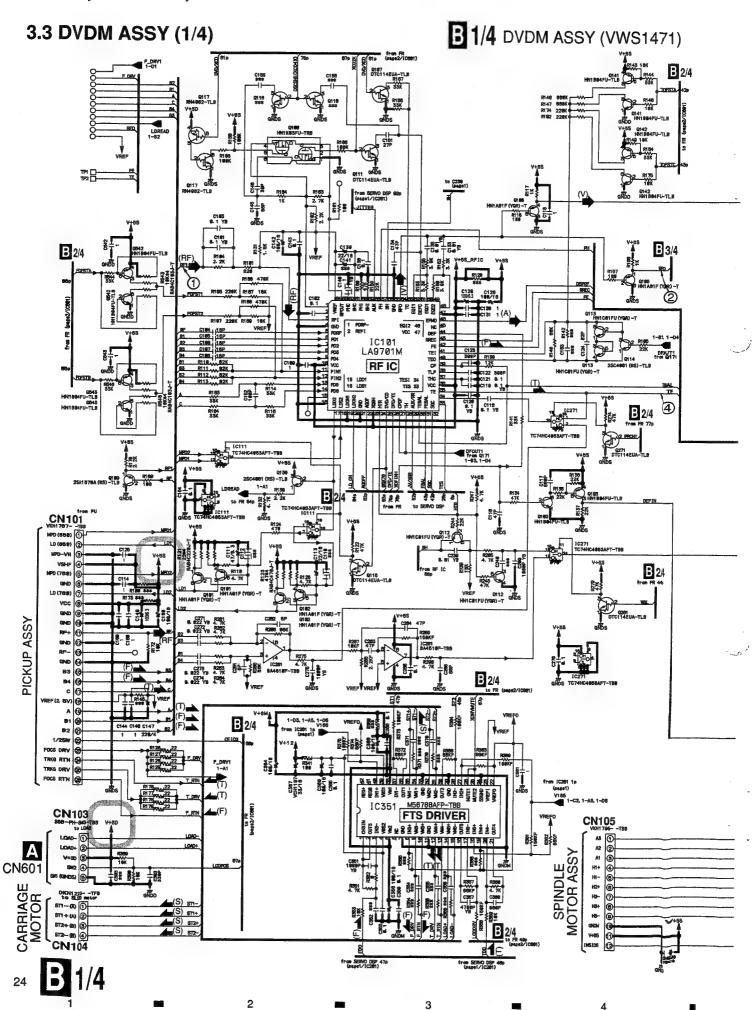
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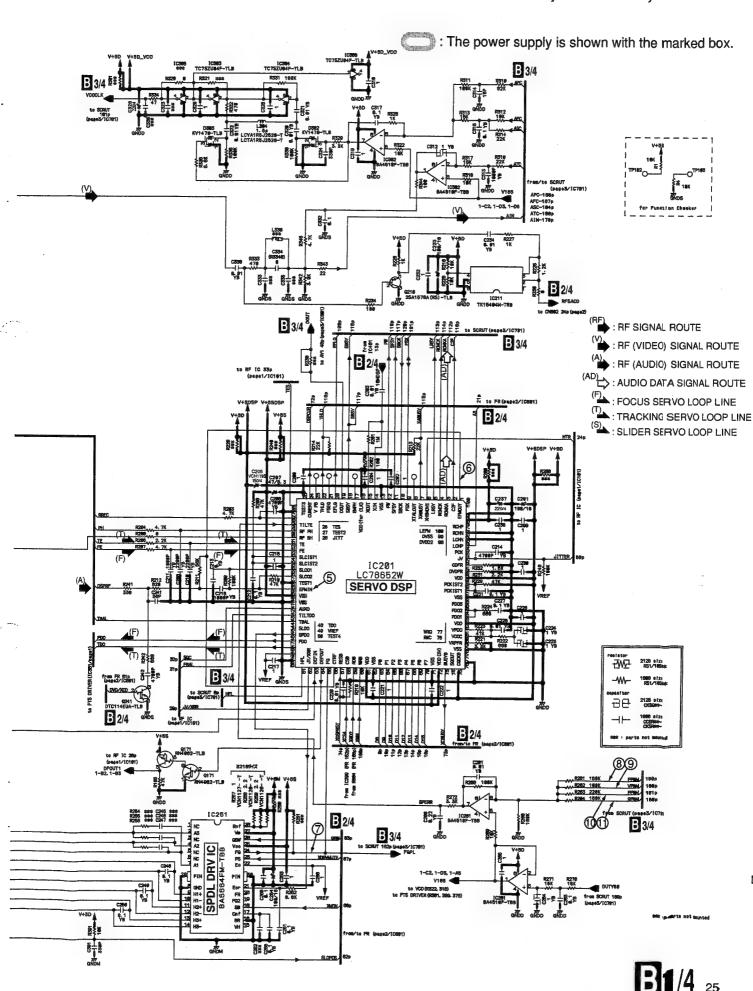
3.2 LOAB ASSY and OVERALL WIRING DIAGRAM

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB





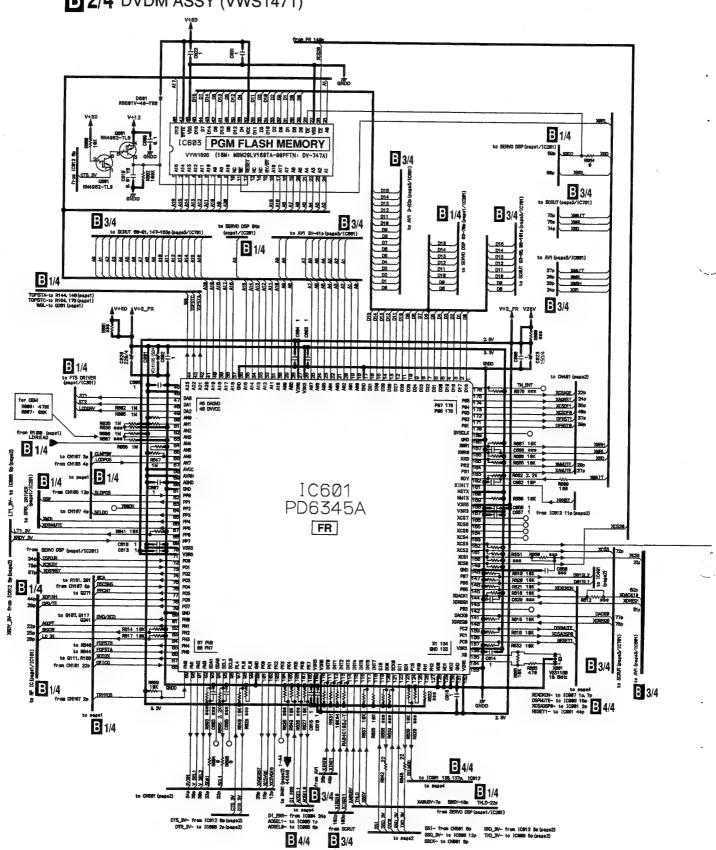




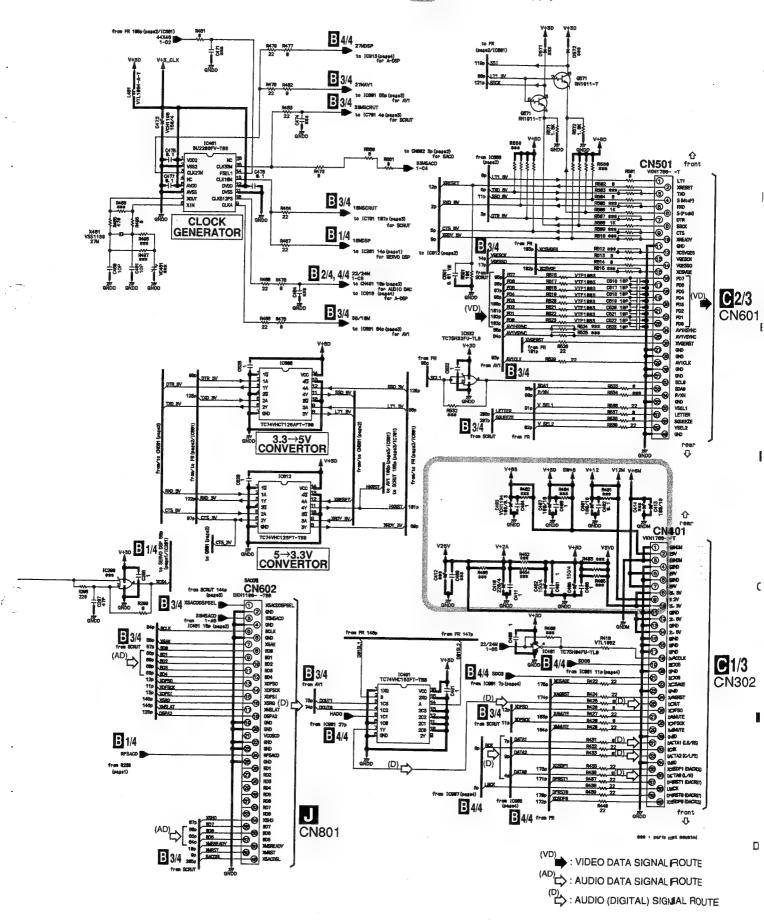
DV-47A, DV-S733A, DV-747A

3.4 DVDM ASSY (2/4)

B 2/4 DVDM ASSY (VWS1471)



: The power supply is shown with the marked box.

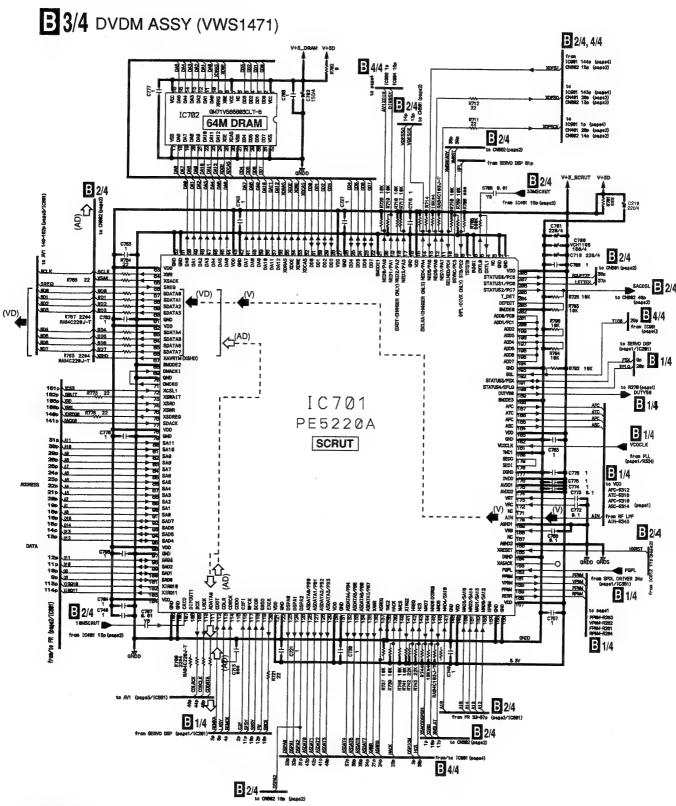


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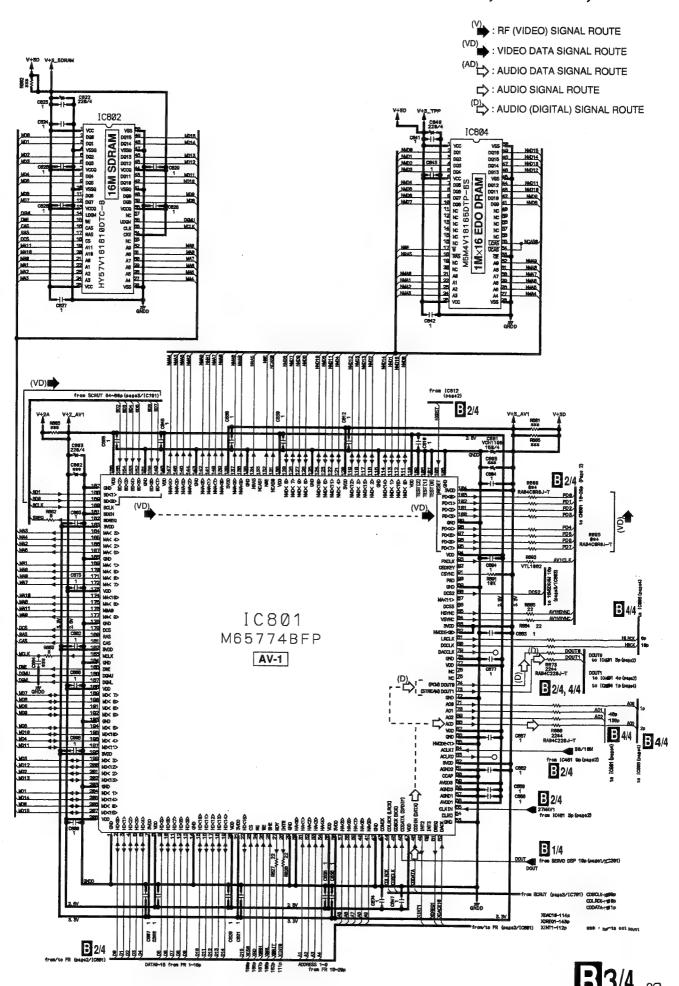
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B 2/4 27

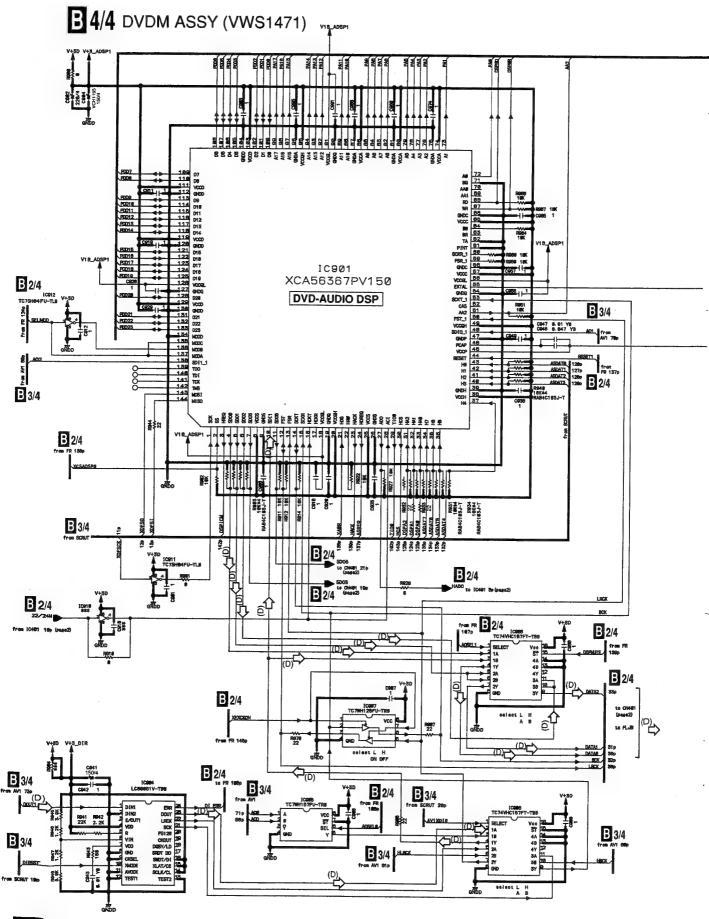
3.5 DVDM ASSY (3/4)



DV-47A, DV-S733A, DV-747A



3.6 DVDM ASSY (4/4)

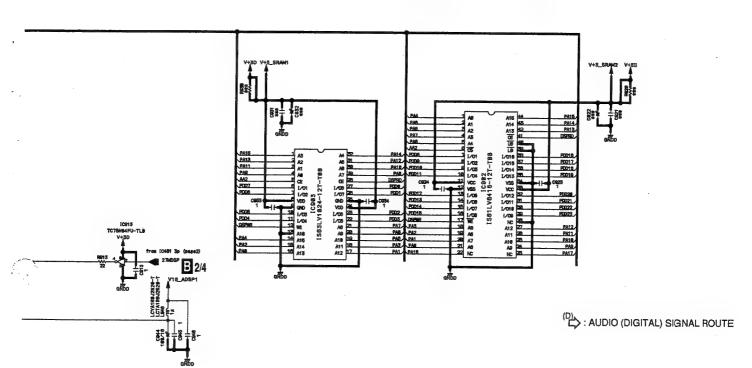


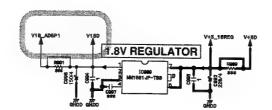
B 4/4

2

⁷ DV-47A, DV-S733A, DV-747A

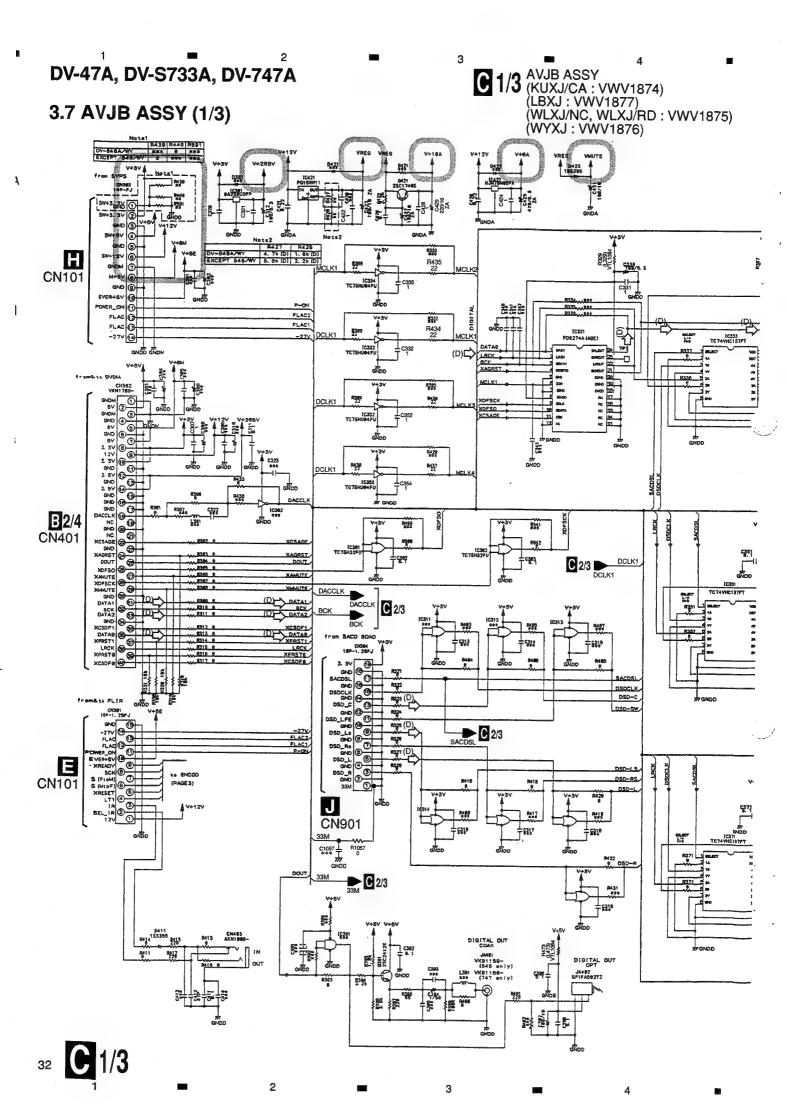
: The power supply is shown with the marked box.



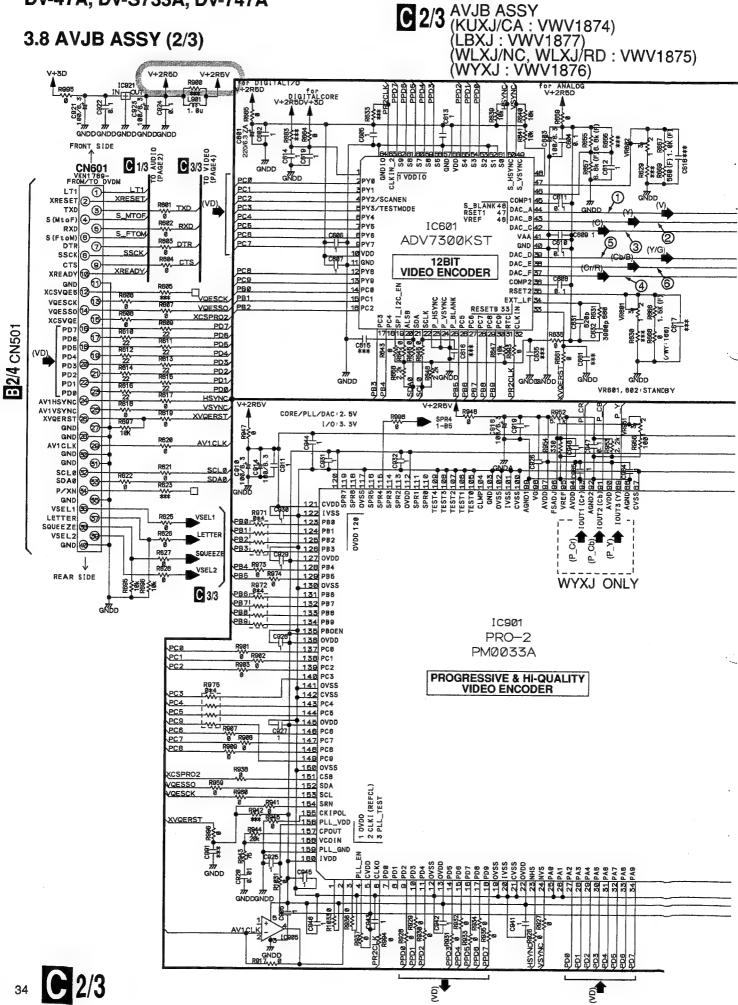


B 4/4

5

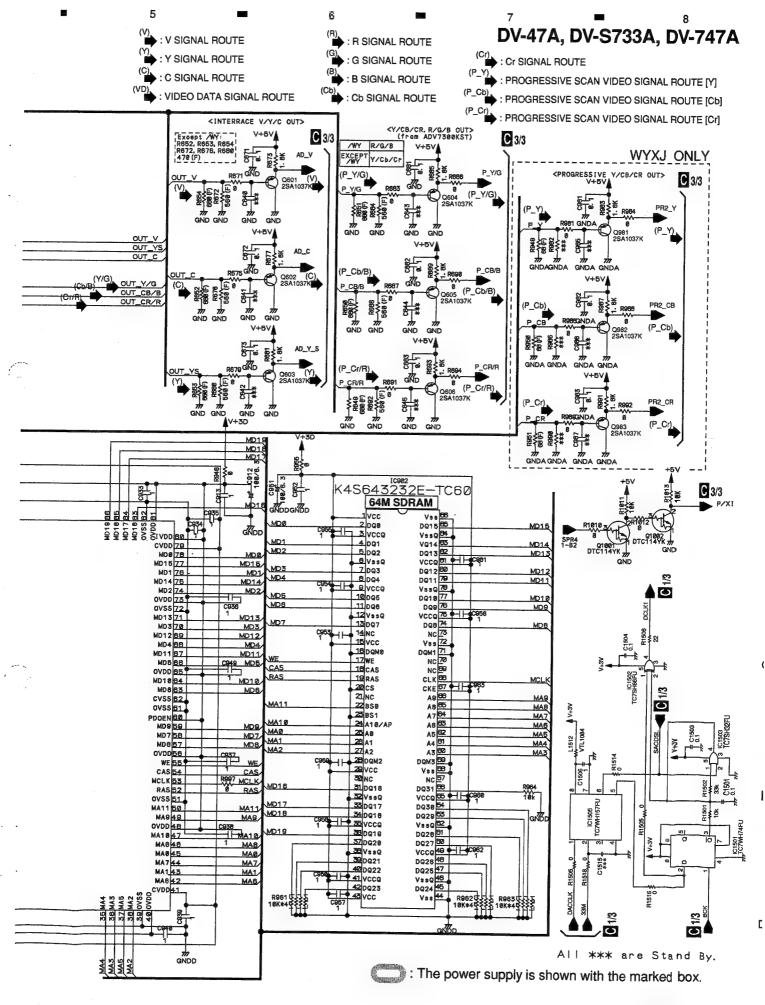


DV-47A, DV-S733A, DV-747A



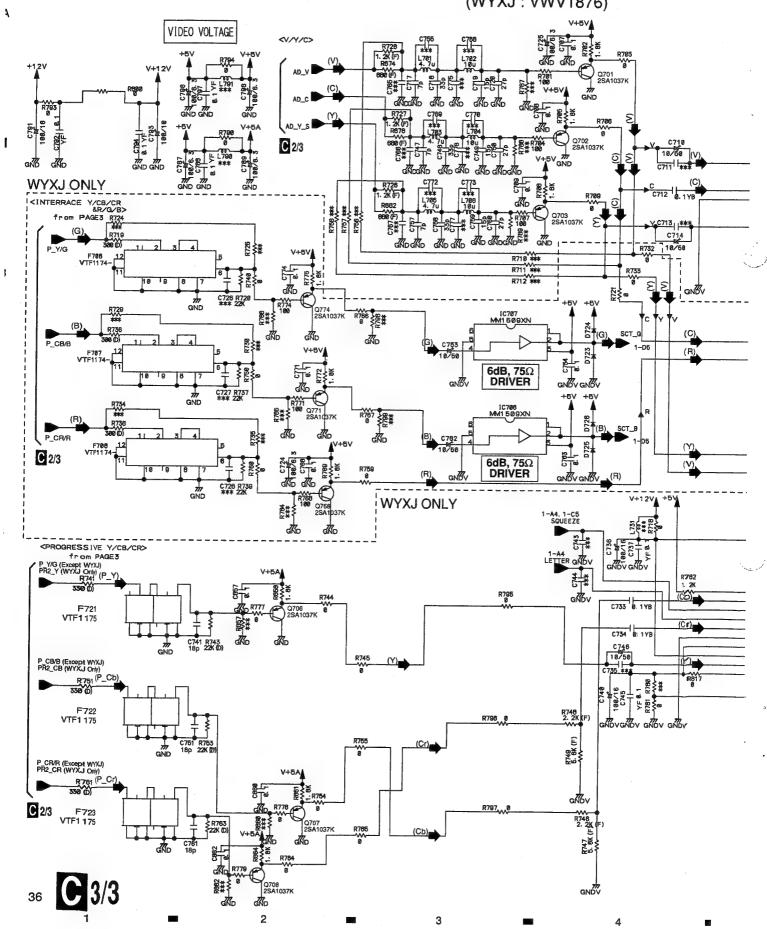
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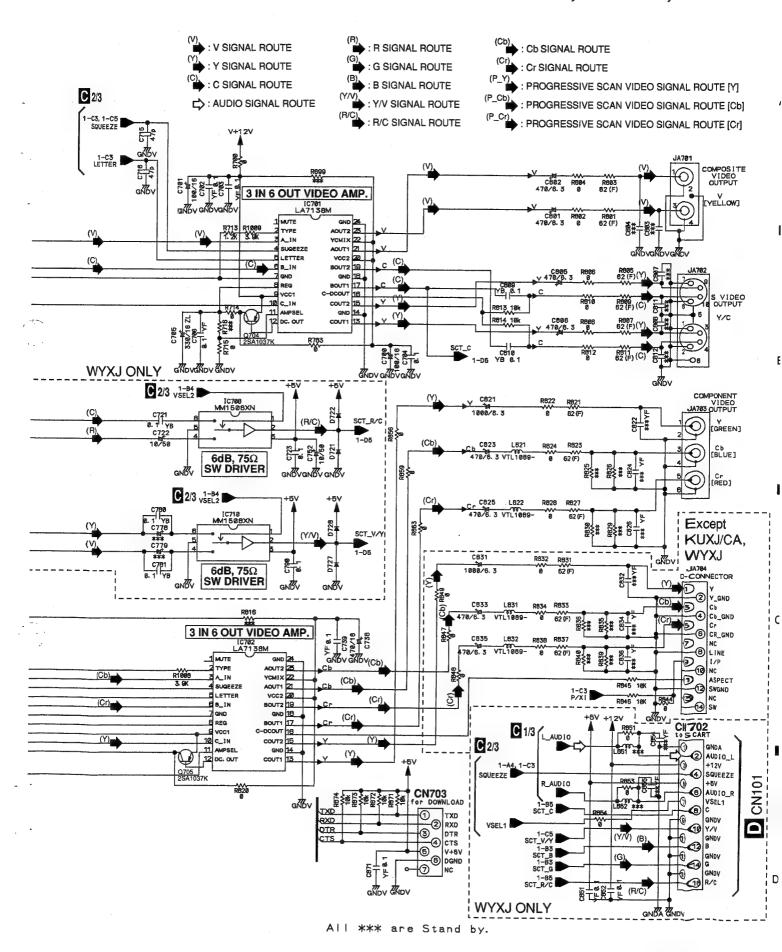
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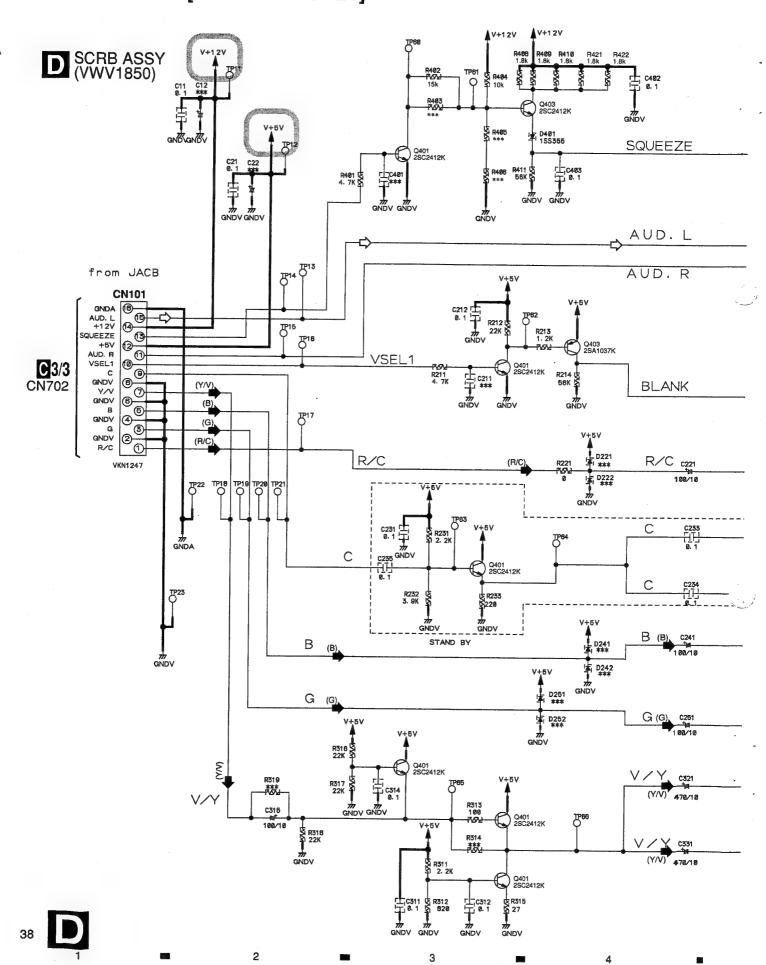


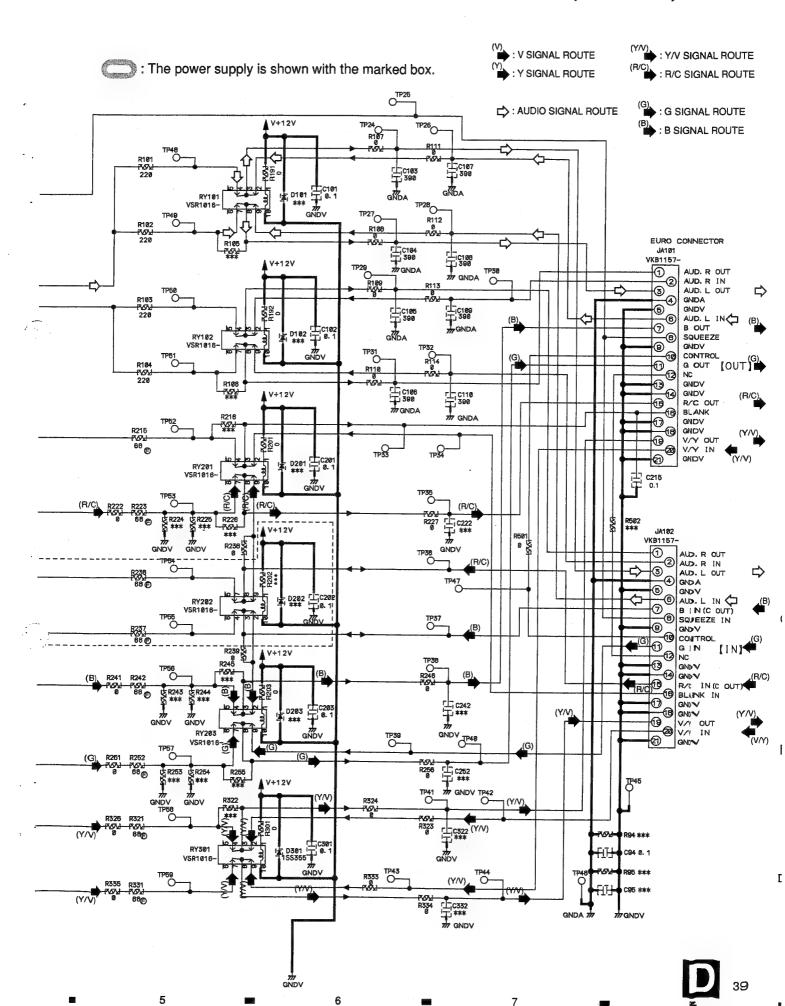
3.9 AVJB ASSY (3/3)

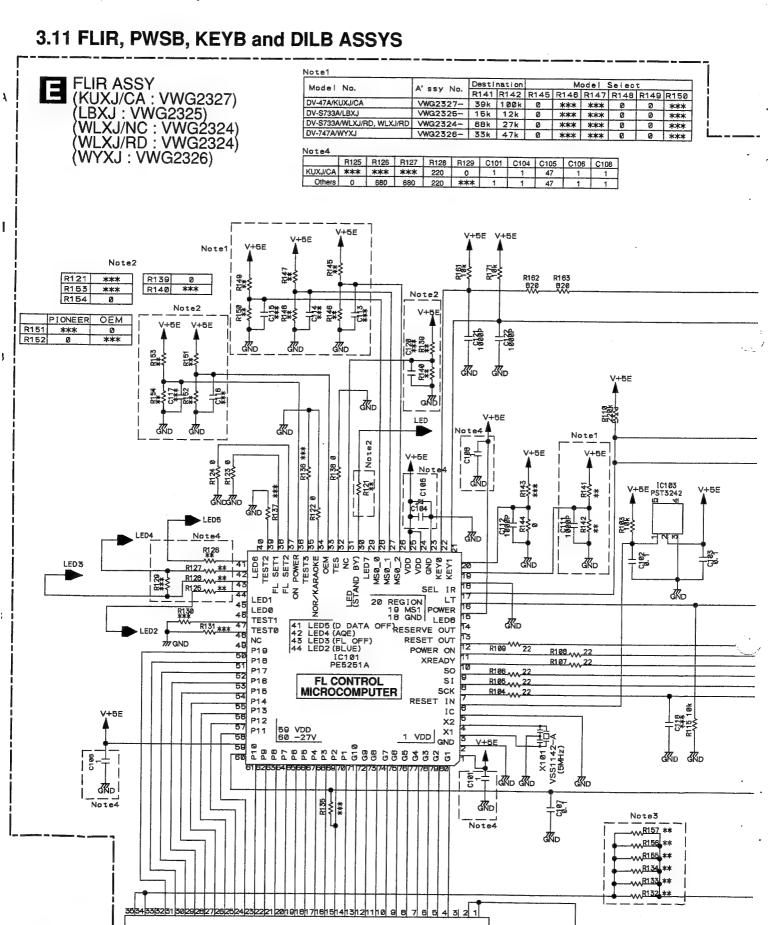
C 3/3 AVJB ASSY (KUXJ/CA: VWV1874) (LBXJ: VWV1877) (WLXJ/NC, WLXJ/RD: VWV1875) (WYXJ: VWV1876)







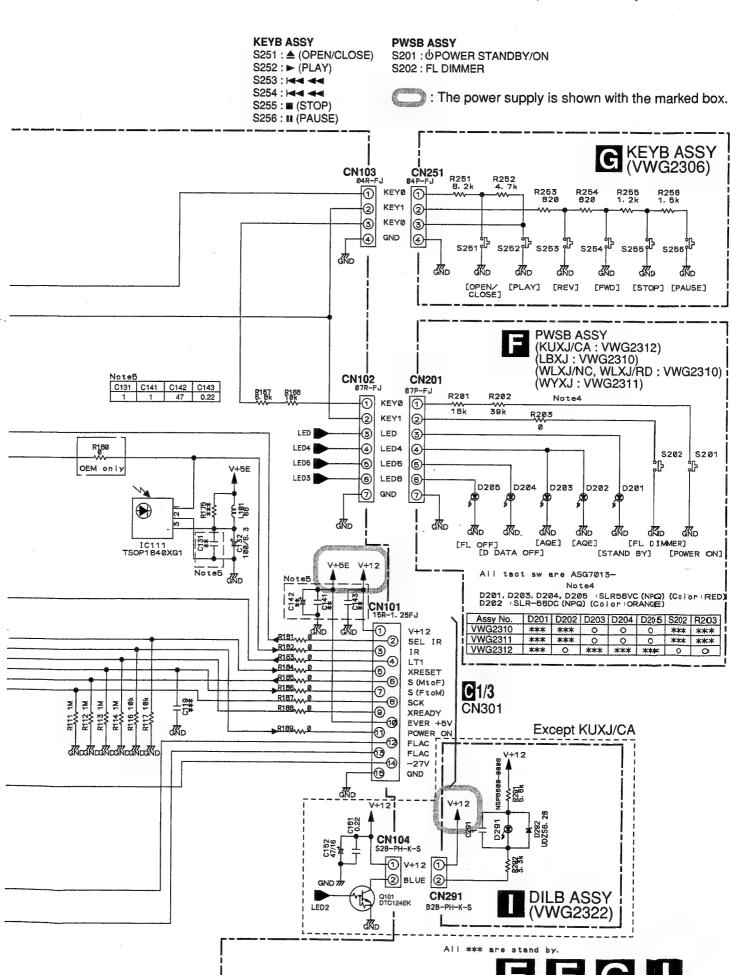




VAW1 085-

FL TUBE

Note3 R132 R133 R134 R155 R156 R157 33 33 33 *** *** ***

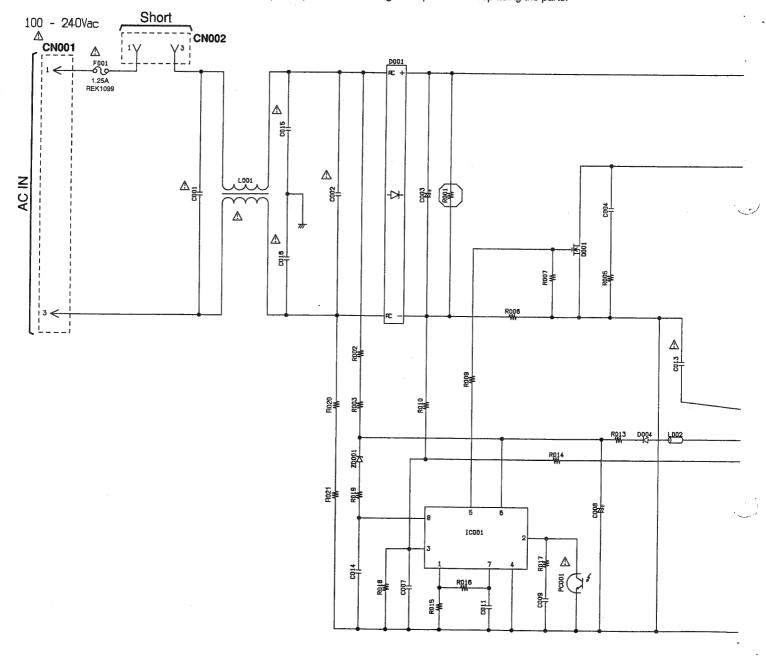


3.12 POWER SUPPLY UNIT (VWR1346)

POWER SUPPLY UNIT (VWR1346)

« NOTE OF SPARE PARTS IN POWER SUPPLY (SYPS) UNIT »

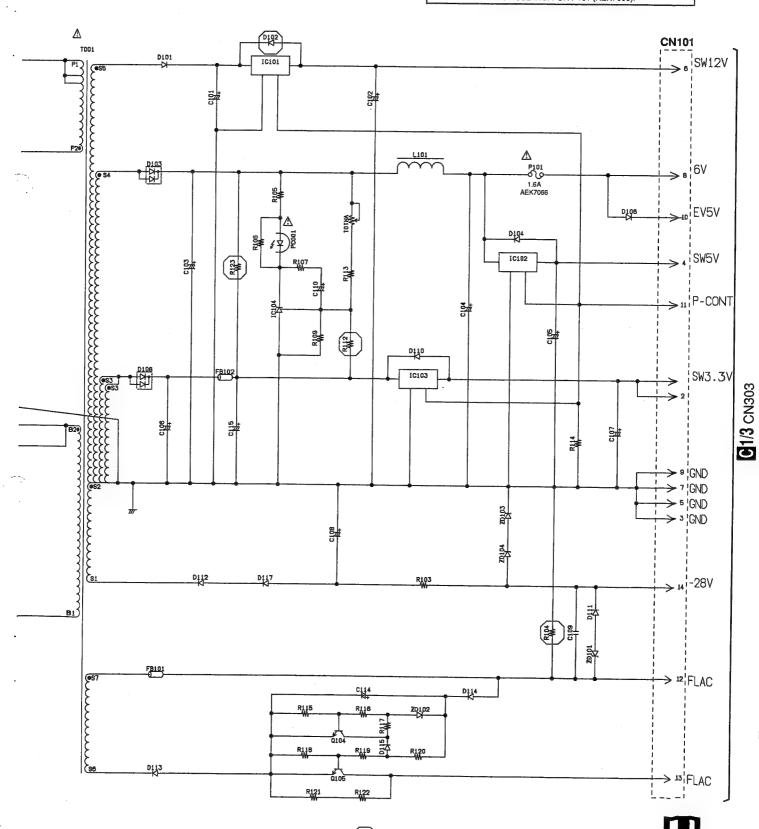
- In case of repairing, use the described parts only to prevent an accident.
- Please write the red
 ✓ mark on the board when the primary section of POWER SUPPLY (SYPS) Unit is repaired.
- Please take care to keep the space, not touching other parts when replacing the parts.



NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

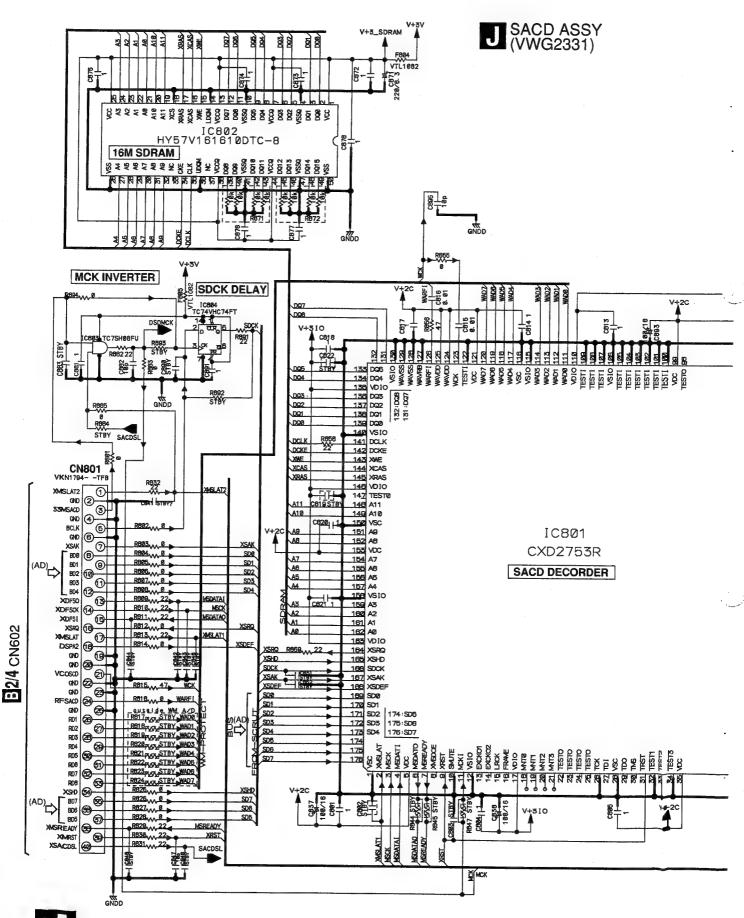
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD, BY LITTELFUSE INC. FOR P101 (AEK7066).



This märk shows OPEN Part (No mounted)

5

3.13 SACD ASSY



44

3

Note

1608 SIZE
RS1/16S***

H- 1608 SIZE
CCSR***
CKSR***

-** CEHAZA***

5

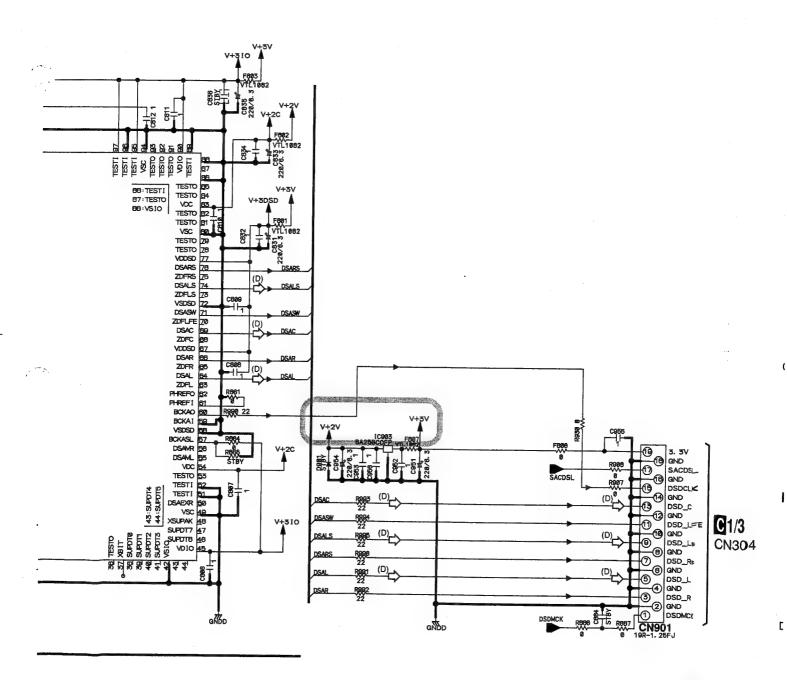
: The power supply is shown with the marked box.

(AD)

∴ : AUDIO DATA SIGNAL ROUTE

(D)

∴ : AUDIO (DIGITAL) SIGNAL ROUTE

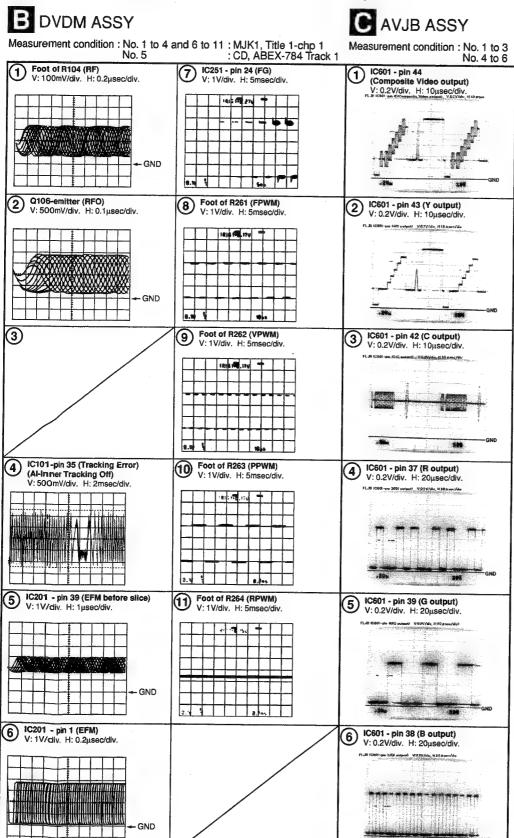


5

6

WAVEFORMS

Note: The encircled numbers denote measuring point in the schematic diagram.



: MJK1, Title 1-chp 4 : T2-19, Color-bar

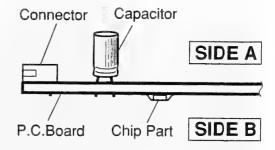
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS:

- Part numbers in PCB diagrams match those in the schematic diagrams.
- A comparison between the main parts of PCB and schematic diagrams is shown below.

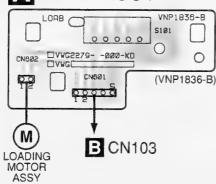
siagranis is snown bolow.					
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name			
000 B C E		Transistor			
© 0 0 B C E		Transistor with resistor			
© 0 0 D G S		Field effect transistor			
<u>600</u> 60004	%% % % o	Resistor array			
000		3-terminal regulator			

- The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.

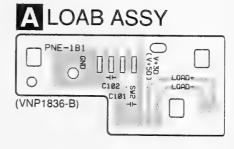


4.1 LOAB ASSY







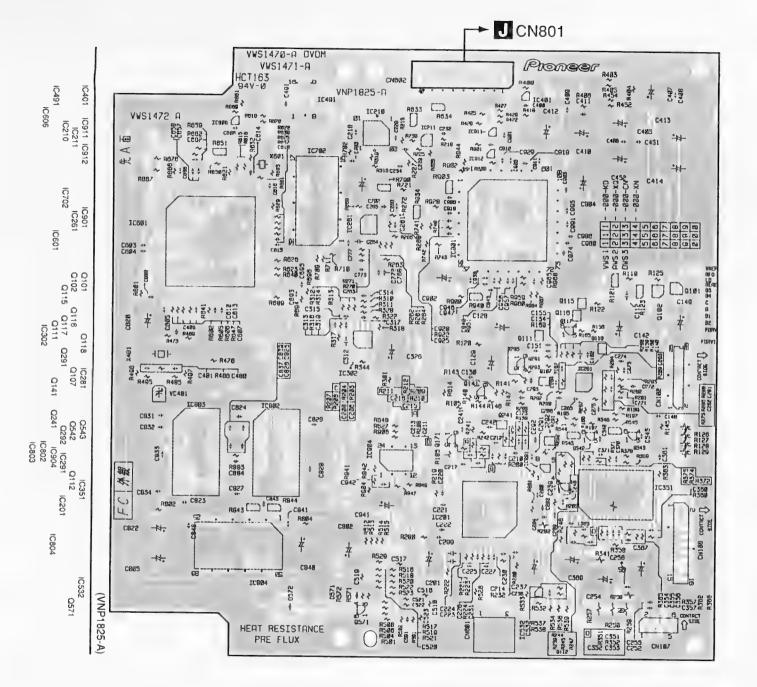


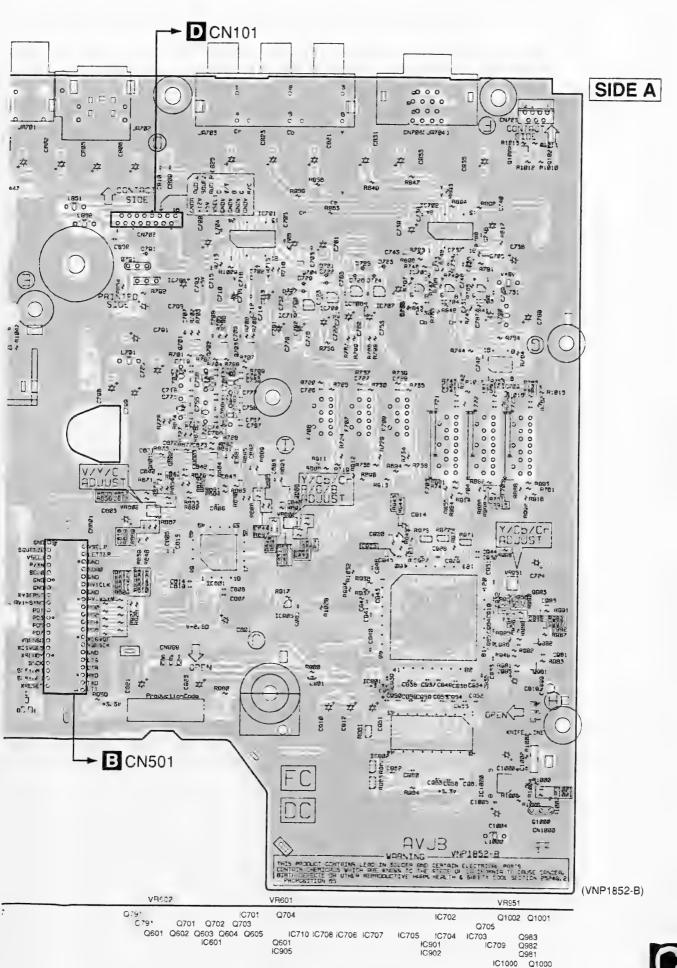


4.2 DVDM ASSY

DVDM ASSY

SIDE





_

IC331

Q450 Q457

Q451

5

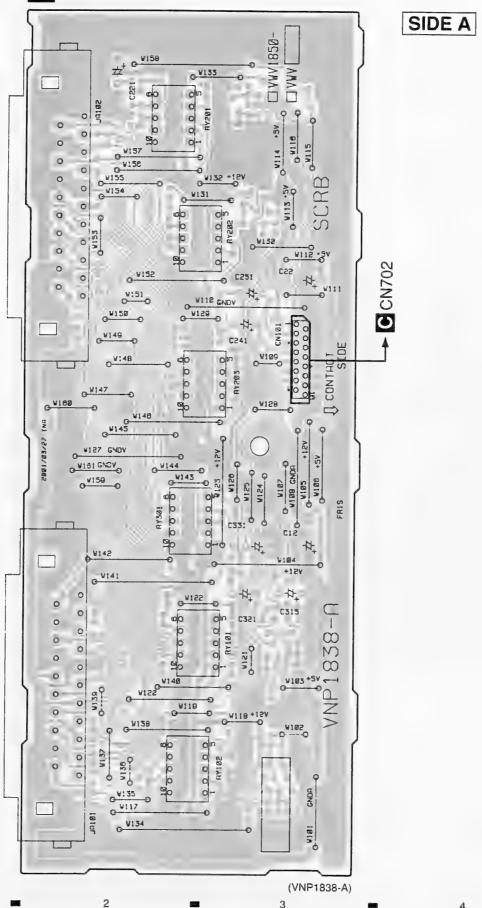
6

Q507 Q505 Q501 Q503 Q557 Q555 Q551 Q553

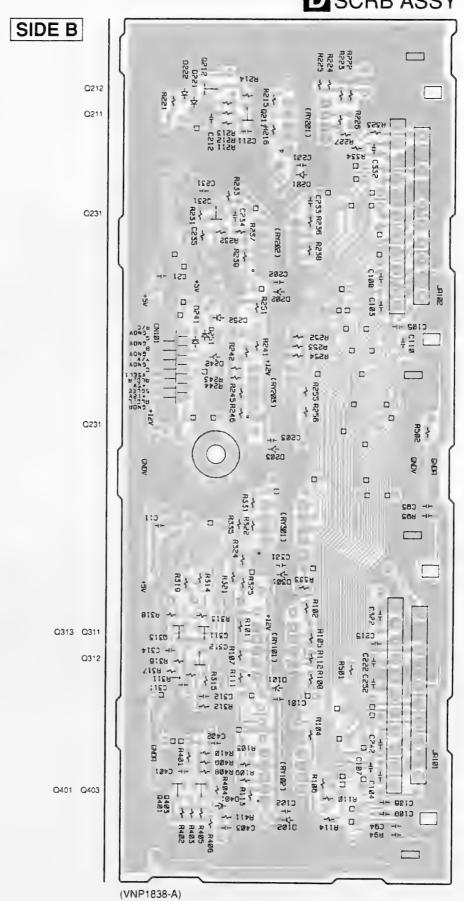
IC301

4.4 SCRB ASSY (For WYXJ Type)

D SCRB ASSY



D SCRB ASSY



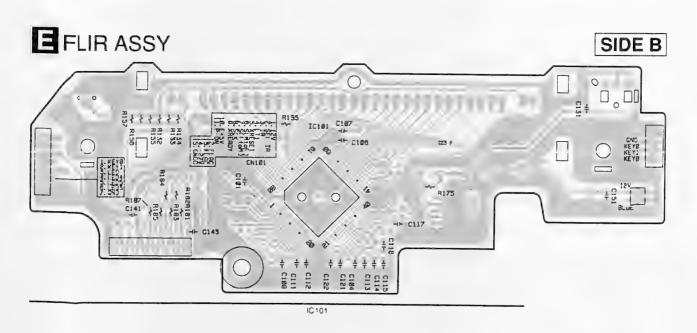
2

3

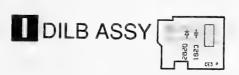
4.5 FLIR, DILB ASSY Except KUXJ/CA Type II DILB ASSY IC103 IC111 C CN301 -F CN201 1010 ₹ cras 5213 5152 513 ~ 5018 SŽIN ~ 2018 CEINO ့နွဲ ၀ 0000 **E** FLIR ASSY

(VNP1852-B)

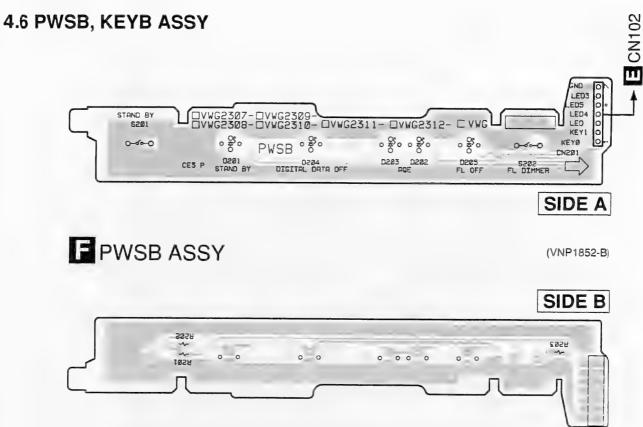
SIDE A

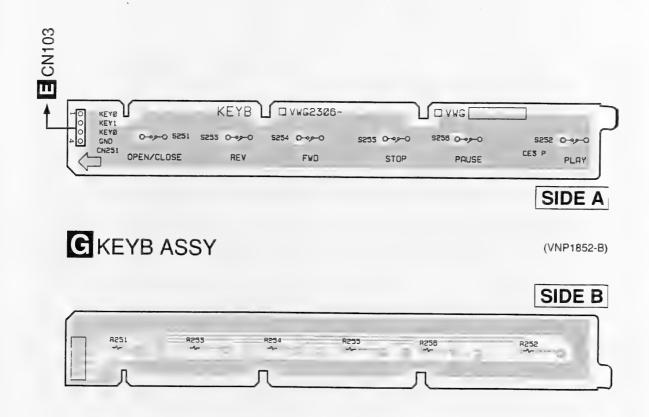




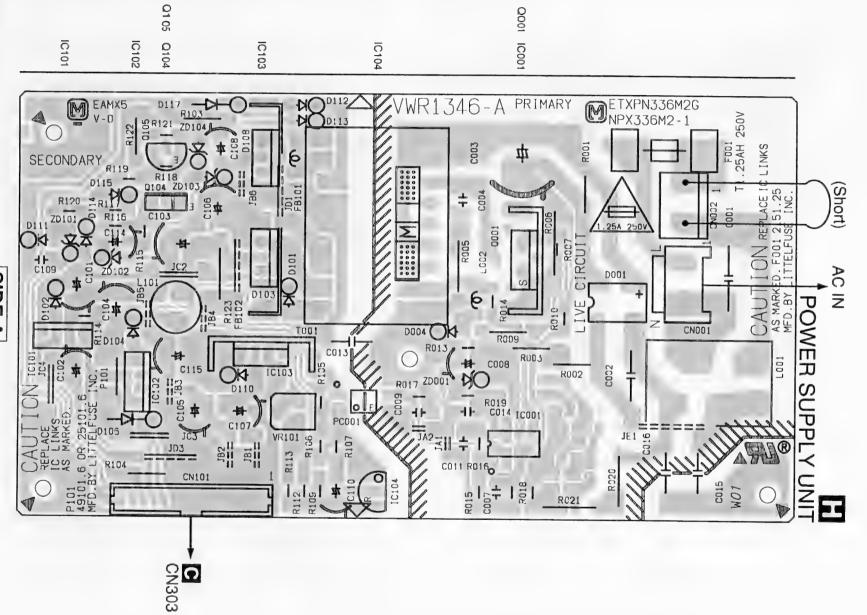








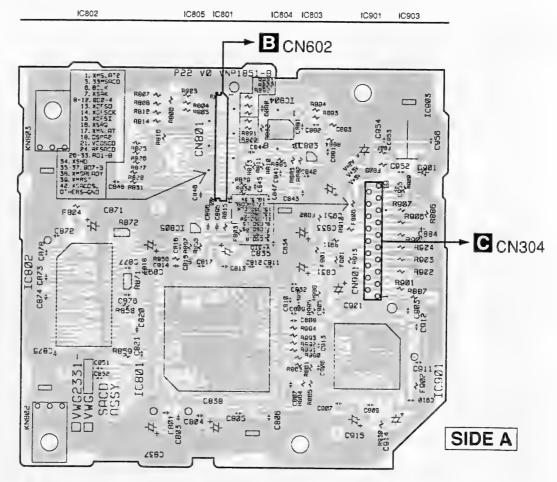
4.7 POWER SUPPLY UNIT



58

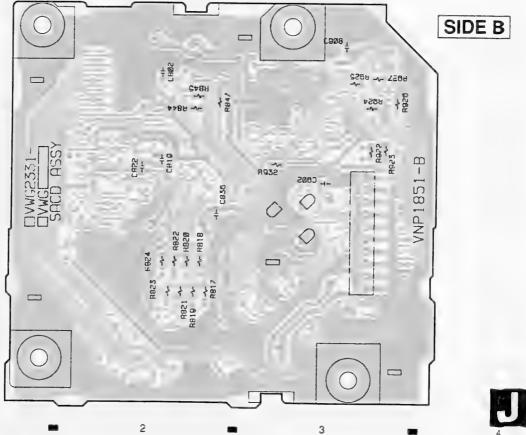
SIDE

D



J SACD ASSY

(VNP1851-B)



5. PCB PARTS LIST

NOTES: •Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

•The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

•When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	DV-47A /KUXJ/CA	DV-S733A /LBXJ	DV-S733A /WLXJ/NC			Remarks
NSP NSP	LOADING MECHANISM ASSY LOAB ASSY	VWT1188 VWG2279	VWT1188 VWG2279	VWT VWG	1188	VWT1188 VWG2279	
	DVDM ASSY	VWS1471	VWS1471	VWS1471		VWS1471	
NSP NSP NSP	FLJB ASSY — FLIR ASSY — KEYB ASSY — PWSB ASSY — AVJB ASSY — DILB ASSY	VWM2108 VWG2327 VWG2306 VWG2312 VWV1874 Not used	VWM2111 VWG2325 VWG2306 VWG2310 VWV1877 VWG2322	VWM VWG VWG VWV VWG	2324 2306 2310 1875	VWM2110 VWG2326 VWG2306 VWG2311 VWV1876 VWG2322	
NSP	SACD ASSY	VWG2331	VWG2331	VWG	2331	VWG2331	
	SCRB ASSY	Not used	Not used	· Not u	ısed .	VWV1850	
Δ	POWER SUPPLY UNIT	VWR1346	VWR1346	VWR	1346	VWR1346	

FLIR ASSY

VWG2327, VWG2325, VWG2324 and VWG2326 are constructed the same except for the following:

Mark	Symbol and Description		Par			
INDEL IV	Symbol and Description	VWG2327	VWG2325	VWG2324	VWG2326	Remarks
	Q101 R125 R126, R127 R129 R141	Not used Not used Not used RS1/16S0R0J RS1/16S393J	DTC124EK RS1/16S0R0J RS1/16S681J Not used RS1/16S153J	DTC124EK RS1/16S0R0J RS1/16S681J Not used RS1/16S683J	DTC124EK RS1/16S0R0J RS1/16S681J Not used RS1/16S333J	
	R142 CN104 CONNECTOR	RS1/16S104J Not used	RS1/16S123J S2B-PH-K-S	RS1/16S273J S2B-PH-K-S	RS1/16S473J S2B-PH-K-S	

	PWSB ASSY /WG2312, VWG2310 and VWG2311 are constructed the same except for the following:						
Mark	Symbol and Description	Part No.			Remarks		
		VWG2312	VWG2310	VWG2311	Hemarks		
	D202 D203 D204, D205 S202 R203	SLR-56VC(NPQ) Not used Not used ASG7013 RS1/16S0R0	Not used SLR-56DC(NPQ) SLR-56VC(NPQ) Not used Not used	Not used SLR-56DC(NPQ) SLR-56VC(NPQ) Not used Not used			

■ PCB PARTS LIST FOR DV-47A/KUXJ/CA UNLESS OTHERWISE NOTED

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A	LOAE	B ASSY				Q130 Q111, Q115, Q241, Q271	2SC4081 DTC114EUA DTC114EUA
SWIT		AND RELAYS	V0V4044			Q102, Q106 Q141, Q142, Q542, Q543	HN1A01F HN1B04FU
OTU		REAF SWITCH	VSK1011		Q112, Q108	Q113	HN1C01FU HN1K03FU
OTHE					Q571		RN1911
	CN601	CONNECTOR CONNECTOR ITED CIRCUIT BOARD	S2B-PH-K S5B-PH-K VNP1836			Q171, Q601 D303	RN4982 KV1470
					D601		RB501V-40
B	DVDA	M ASSY		COIL		FILTERS	
	אוטעט	I ASST			L946 L304		LCYA1ROJ2520
SEMI	COND	UCTORS				L418, L489, L893 CHIP BEADS	LCYA1R5J2520
		IC281, IC302	BA4510F		L516-	L523 CHIP BEADS	VTL1082
	IC251 IC481	10201, 10002	BA6664FM BU2288FV	•		CHIP BEADS	VTL1084
	IC702		GM71VS65803CLT-5	CAPA	CITO	RS	
	IC802		HY57V161610DTC-8			C481, C516-C523, C662	CCSRCH100D50
	IC902		ICCAL VICAGE ACT		C152		CCSRCH101J50
	IC902		IS61LV6416-12T IS63LV1024-12T			C108, C314	CCSRCH 150J50
	IC101		LA9701M		C151		CCSRCH270J50
	IC201 IC904		LC78652W LC89051V			C391, C392	CCSRCH331J50
	,		20050514		C146	0.00	CCSRCH390J50
	IC351		M56788AFP		C122,		CCSRCH391J50
	IC804		M5M4V18165DTP-6S		C116, C145,	C134, C283, C284, C297	CCSRCH470J50
Δ	IC801 IC909		M65774BFP MM1561JF		C281,		CCSRCH560J50 CCSRCH5R0C50
	IC601		PD6345A		C286		CCSRCH680J50
	IC701		DECOMA.		C117,	C360	CCSRCH681J50
	IC111.	IC271	PE5220A TC74HC4053AFT		C124		CCSRCH220J50
	IC612	IOE I	TC74VHC125FT		C128, (C142, C189, C201, C233	CEV101M116
	IC491 IC906, I	IC908	TC74VHC153FT TC74VHC157FT			C358, C364, C368, C369	CEV101/16
	, ,					C407, C413, C944	CEV101個16
	IC608		TC74VHCT125AFT		C113, (CEV220M 16
		C911-IC913	TC7SH04FU			C219, C237, C326, C410 C701, C710, C803, C822	CEV221M4
	IC532		TC7SH32FU		C902, (2002	CEV221#4 CEV221#4
		C304, IC306	TC7SZU04F		0502, (3332	CEV22III4
	IC907		TC7WH125FU		C111, 0	C207	CEV470N 6R3
	IC905		TC7\MU157ELL		C140, 0	C223, C224, C264, C312	CKSQYBI 05K10
	IC211		TC7WH157FU TK15404M		C209, 0	C211, C216, C275, C313	CKSRYB 02K50
	IC603		VYW1896		C351		CKSRYB 02K50
	IC901		XCA56367PV150		C133, 0	C136, C203, C220, C225	CKSRYB 03K50
	Q109, C	2210	2SA1576A				

Mark		Description	Part No.	Mark	No.	Description	Part No.
	C234,	C239, C261, C320-C322	CKSRYB103K50		R123	3	RAB4C470J
		C591, C619, C705, C707	CKSRYB103K50			2. R341	RS1/10S101J
	C943,		CKSRYB103K50			5–R129, R176–R179	RS1/10S220J
		C103, C118-C120	CKSRYB104K16		R287		
		C213, C227, C231	CKSRYB104K16				RS1/16S1002F
	·	•	01/311111041110		N304	I, R369, R373, R375	RS1/16S1003F
		C251, C255, C263, C315	CKSRYB104K16			, R358, R361	RS1/16S1503F
	C317	0010	CKSRYB104K16		R288		RS1/16S2201F
	C208,		CKSRYB222K50		R357	7, R362, R363, R368, R372	RS1/16S6802F
	C271-	C274	CKSRYB223K50		R374		RS1/16S6802F
	C266		CKSRYB224K10		R257	′ (1.0Ω, 1/4W)	VCN1127
	C206,	C214, C242, C357	CKSRYB472K50		R258	3, R259 (2.2Ω, 1/4W)	VCN1128
	C946		CKSRYB473K50		Other	r Resistors	RS1/16SDDDJ
	C102.	C121, C138, C143, C154	CKSRYF104Z25		Outlo	1103131013	N31/103LLLD
		C279, C285, C332, C353	CKSRYF104Z25				
		C365, C366, C402	CKSRYF104Z25	OTH	ERS		
	0000,	0000, 0000, 0402	ONS/111 104225		CN60	2 FFC CONNECTOR	DKN1196
	C475 (C477 C600 C760	OKCBVE10470F			4 4P CONNECTOR	
		C477, C609, C768	CKSRYF104Z25			3 CONNECTOR	DKN1223 S5B-PH-SM3
	C772, (CKSRYF104Z25				
		C114, C115, C125	CKSRYF105Z10			EXIBLE CABLE	VDA1681
		C131, C144, C148, C150	CKSRYF105Z10		CN10	1 FFC CONNECTOR	VKN1787
	C160, (C200, C202, C204, C215	CKSRYF105Z10		CN40	01, CN501 B TO B CONNECTOR 4	IND V/KN1799
	C217, 0	C221, C222, C226, C230	CKSRYF105Z10		CN10	5 12P CONNECTOR	VKN1795
		C236, C253, C258, C265	CKSRYF105Z10			(27.000MHz)	VSS1159
		C299, C310, C319	CKSRYF105Z10			(16.5MHz)	VSS1160
	C328.	C329, C361, C393, C400	CKSRYF105Z10			•	· • • •
		C406, C408, C411, C451	CKSRYF105Z10				
			CROTTI 100210				
		C532, C542, C543	CKSRYF105Z10		A 1/ 12	B ASSY (VWV1874	141174 1/0 4
		C605, C607, C608, C610	CKSRYF105Z10		HVJ	3 A331 (VWV1874	: KUXJ/CA)
	C613-0	C616, C618, C622, C626	CKSRYF105Z10				·
	C628, C	C631, C657, C658	CKSRYF105Z10	SEMI	CONL	DUCTORS	
		704, C708, C715, C721	CKSRYF105Z10		IC601		ADV7300KST
	,		0.10.11.700270	Δ	IC301		BA25BC0FP
	C727 C	2730, C740, C743, C749	CKSRYF105Z10		IC921		BA25BC0FP
		757, C762, C774–C778	CKSRYF105Z10			, IC501, IC551	
		796, C804, C807, C808			IC902		CS4392D-KS
			CKSRYF105Z10		10302		K4S643232E-TC60
		0812, C820, C821	CKSRYF105Z10		10704	10700	
	C823-C	0830, C835, C836, C838	CKSRYF105Z10			, IC702	LA7138M
	0044					, IC502, IC552	NJM5532MD
		2843, C847, C848, C856	CKSRYF105Z10	Δ	IC422		NJM78M05FA
		862, C863, C865, C867	CKSRYF105Z10		IC331		PD0274A
		2874, C877, C880	CKSRYF105Z10		IC901		PM0033A
		2883, C888, C894, C898	CKSRYF105Z10				
	C901, C	903, C905-C908	CKSRYF105Z10	lacktriangle	IC421		PQ15RW11
					IC333	, IC351, IC371	TC74VHC157FT
	C911-0	913, C918-C920	CKSRYF105Z10			, IC362	TC7SH32FU
		926, C929, C933, C934	CKSRYF105Z10			, IC334, IC352, IC353	TC7SHU04FU
		942, C945, C948, C949	CKSRYF105Z10			Q446, Q502, Q506, Q552	2SA1037K
		957, C965, C974, C980	CKSRYF105Z10		~ · · · · · · · · · · · · · · · · · · ·	_ · · · · · · · · · · · · · · · · · · ·	20/100/1
		988, C991, C993–C995	CKSRYF105Z10		0556	Q601-Q606, Q701-Q708	28410274
	_ 500, C	.000, 0001, 0000-0000	OKOTTE 100210	Δ		4001-4000, G/01-Q/08	2SA1037K
	C400 C	140 C402 (400E/0.0\/)	VOLITACA	<u> </u>	Q421		2SC1740S
		3149, C403 (100μF/6.3V)	VCH1194		Q391	0440 0450 0:55	2SC2412K
		405, C452 (150μF/4V)	VCH1195			Q448-Q452, Q456, Q457	2SD2114K
		601 (150μF/4V)	VCH1195		Q504,	Q508, Q554, Q558	2SD2114K
		700, C702 (150µF/4V)	VCH1195				
	C801, C	840 (150μF/4V)	VCH1195		Q441,	Q443, Q445, Q447, Q501	DTC114YK
						Q505, Q507, Q551, Q553	DTC114YK
	C904, C	941, C996 (150μF/4V)	VCH1195		Q555,		DTC114YK
		3μF/16V)	VCH1197		D411,		1SS355
EOIO	Torr			0011		FII TERE	
ı⊏3 S	TORS	005	DAD (OADs :	COILS		FILTERS	
	R800, R		RAB4C0R0J			L704, L706	LAU100J
		545, R631, R714, R744	RAB4C103J			L703, L705	LAU4R7J
	R903, R	931, R934, R940	RAB4C103J		F721-	F723 12MHz LPF(VIDEO)	VTF1175
		757, R763, R790, R868	RAB4C220J	•		, L300, L329 CHIP BEADS	VTL1084
	R873		RAB4C220J			L370 CHIP BEADS	VTL1084
					L386. I	L441, L473 CHIP BEADS	VTL1084
					L501 I	L551 CHIP BEADS	VTL1084 VTL1084
					1821	_822 CHIP BEADS	VTL1084 VTL1089
						-CAL OTH DEADS	4 1 L 1 U 0 3

No. Description	Part No.	Mark No. De	scription	Part No.
ACITORS		RESISTORS		
C477, C497, C532, C533, C579	CCSRCH101J50	R961-R963		D4D404001
C581	CCSRCH101J50	D074 D070	Doze	RAB4C103J
		H9/1, H9/2	, R975	RAB4C220J
	CCSRCH102J50		, R481, R495, R511	RN1/16SE12020
C482, C485, C512, C515, C522	CCSRCH102J50		2, R535, R561, R571	RN1/16SE1202
C525, C562, C565, C572, C575	CCSRCH102J50	R582, R585		RN1/16SE12020
C719, C749, C759	CCSRCH150J50	R464, R467	, R484, R487, R514	RN1/16SE1502D
C463, C466, C483, C486, C513	CCSRCH221J50	R517, R524	, R527, R564, R567	RN1/16SE1502D
C516, C523, C526, C563, C566	CCSRCH221J50	R574, R577	, ,	RN1/16SE1502D
C573, C576	CCSRCH221J50		, R482, R485, R512	RN1/16SE2201
C720, C750, C760	CCSRCH270J50		, R525, R562, R565	RN1/16SE22010
C718, C748, C758	CCSRCH330J50	R572, R575		RN1/16SE2201E
C412, C715, C716	CCSRCH470J50		, R494, R496, R531	RN1/16SE3301
	CCSRCH7R0D50	DE33 DE34	, R536, R581	
C761	CCSRCH7R0D50			RN1/16SE3301
		R583, R584		RN1/16SE3301E
C631	CCSRCH821J25	R666, R667	, R726–R728, R953	RS1/16S1201F
C312, C339	CEAL101M6R3	R655		RS1/16S1502F
C710, C714, C746	CEAT100M50	R428		RS1/16S2201D
C431, C511, C514, C521, C524	CEAT101M16	R952		RS1/16S3001F
	CEAT101M16	R741, R751	. R761	RS1/16S3300D
	CEAT101M16	R668, R669		RS1/16S3300F
C397, C603, C725, C752	CEAT101M6R3	R746, R748		RS1/16S3301F
	CEAT101M6R3	R656		RS1/16S4702F
	CEAT101M6R3		, R680, R684, R688	
C951	CEAT101M6R3		1000, 1004, 1000	RS1/16S5600F
C821	CEAT101M6R3	R692 R747, R749		RS1/16S5600F RS1/16S5601F
C394, C503, C553	OF ATA DOMEO			
0004, 0000, 0005, 0000, 0000	CEAT1R0M50		, R805, R807, R809	RS1/16S62R0D
	CEAT471M6R3	R811, R821,	, R823, R827	RS1/16S62R0D
	CEAT471M6R3	R649-R654,	R674, R678, R682	RS1/16S6800F
	CEHAT1R0M50	R427		RS1/16S6801D
C445, C505, C555	CEHAT220M50	R657	•	RS1/16S6801F
C423, C427, C791, C795	CEHAZA101M16	Other Resist	ors	RS1/16S□□□J
C429, C452, C507, C557	CEHAZA221M16			
	CEHAZA221M6R3	OTHERO		
	CEHAZA470M35	OTHERS		
	CEHAZA470M35	CN303 CO	NNECTOR 14P	14P-FJ
0077	OLI IAZATI ONIOS	CN301 15P	CONNECTOR	15P-1.25FJ
C40E C440 OF00 OFF0	05114744744000	CN403 JAC		
C425, C442, C502, C552	CEHAZA471M6R3	JA702 SOC		AKN1006
C705, C740	CEHAZL331M16			AKP7116
	CKSRYB103K50	JA402 OPT	. LINK OUT	GP1FA502TZ
	CKSRYB103K50			
	CKSRYB104K16	PCB BIND		VEF1040
, , , , , , , , , , , , , , , , , , , ,		JA701 JAC	K	VKB1123
C632	CKSRYB392K50	JA502 JAC	K	VKB1125
		JA501 JAC		VKB1129
	CKSRYF103Z50	JA703 JAC		VKB1129 VKB1151
	CKSRYF104Z25	3A733 3A01	`	ALDIIO
	CKSRYF104Z25	18404 1401		1/1/D4 100
C444, C447, C504, C508, C554	CKSRYF104Z25	JA401 JACI	1	VKB1160
			CONNECTOR	VKN1267
C558, C602, C604-C614, C619	CKSRYF104Z25		CONNECTOR	VKN1775
	CKSRYF104Z25	CN302, CN6	01 B TO B CONNECTOR 40	P VKN1789
	CKSRYF104Z25	SHIELDING		VNF1124
	CKSRYF104Z25			
	CKSRYF104Z25			
C922, C924	OKCOVE10470E			
	CKSRYF104Z25	AVJB AS	SY (VWV1877 :	I BX-I
	CKSRYF105Z10	TE AO	(
	CKSRYF105Z10	SEMICONDUCTO	npe	
	CKSRYF105Z10		פחע	
	CKSRYF105Z10	IC601		ADV7300KST
		▲ IC301		BA25BC0FP
C428, C441, C475, C501, C529		442 10001		·
C428, C441, C475, C501, C529	CKSRYF105710			BA25BCAFP
C428, C441, C475, C501, C529 C551, C582, C911, C913, C919	CKSRYF105Z10	IC921	IC551	BA25BC0FP
C428, C441, C475, C501, C529 C551, C582, C911, C913, C919 C925–C950, C952–C965	CKSRYF105Z10	IC921 IC441, IC501	, IC551	CS4392D-KS
C428, C441, C475, C501, C529 C551, C582, C911, C913, C919 C925–C950, C952–C965 C420, C421		IC921	, IC551	

Mark		Part No.	Mark	No.	Description	Part No.
Δ	IC701, IC702 IC442, IC502, IC552 IC422	LA7138M NJM5532MD NJM78M05FA		C394 C801,	C802, C805, C806, C823 C833, C835	CEAT1R0M50 CEAT471M6R3 CEAT471M6R3
	IC331 IC901	PD0274A PM0033A			C503, C553 C505, C555	CEHAT1R0M50 CEHAT220M50
Δ	IC421 IC333, IC351, IC371 IC1503, IC361, IC362 IC1502 IC332, IC334, IC352, IC353	PQ15RW11 TC74VHC157FT TC7SH32FU TC7SH86FU TC7SHU04FU		C429, C338, C517,	C427, C791, C795 C452, C507, C557 C356, C375, C601 C527, C567, C577 C442, C502, C552	CEHAZA101M16 CEHAZA221M16 CEHAZA221M6R3 CEHAZA470M35 CEHAZA471M6R3
Δ	IC1505 IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421	TC7WH157FU TC7WH74FU 2SA1037K 2SA1037K 2SC1740S		C1041-	C740 , C324–C326 -C1043, C1501, C712 C734, C809, C810	CEHAZL331M16 CKSRYB103K50 CKSRYB104K16 CKSRYB104K16 CKSRYB392K50
	Q391 Q444, Q448—Q452, Q456, Q457 Q504, Q508, Q554, Q558 Q1001, Q1002, Q441, Q443, Q445 Q447, Q501, Q503, Q505, Q507	2SC2412K 2SD2114K 2SD2114K DTC114YK DTC114YK		C382, (C411, (C333, C351, C371 C383, C392, C396, C398 C426, C444, C447, C504 C554, C558, C602, C604	CKSRYF103Z50 CKSRYF104Z25 CKSRYF104Z25 CKSRYF104Z25 CKSRYF104Z25
COILS	Q551, Q553, Q555, Q557 D411, D423 S AND FILTERS	DTC114YK 1SS355		C681-0	C610, C611, C671–C673 C683, C702–C704 C709, C737, C739, C745 C792, C794, C797, C857	CKSRYF104Z25 CKSRYF104Z25 CKSRYF104Z25 CKSRYF104Z25
COIL	L702, L704, L706	LAU100J			0862, C871, C922, C924	CKSRYF104Z25
	L701, L703, L705 L901 F721–F723 12MHz LPF(VIDEO) L1020, L1512 CHIP BEADS	LAU4R7J LCYA1R0J2520 VTF1175 VTL1084		C1506, C305, C C331, C	C1049, C1440, C1502-C150 C1591, C2042, C301, C303 C307, C320, C321 C332, C334, C335	CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10
	L1531-L1533, L300 CHIP BEADS L329, L368, L370 CHIP BEADS L386, L441 CHIP BEADS L473, L501, L551 CHIP BEADS L821, L822, L831, L832 CHIP BEADS	VTL1084 VTL1084 VTL1084 VTL1084 VTL1089		C428, C C506, C C605–C C619, C	C354, C372, C422, C424 C441, C451, C475, C501 C529, C551, C556, C582 C607, C609, C612–C614 C911, C913, C919	CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10
CAPA	CITORS				0950, C952–C965	CKSRYF105Z10
	C463, C466, C483, C486, C513 C516, C523, C526, C563, C566 C573, C576 C462, C465, C482, C485, C512	CCSRCH101J50 CCSRCH101J50 CCSRCH101J50 CCSRCH102J50		C461, C	2420, C421 2464, C481, C484 (100μF) 2487 (47μF)	CKSRYF224Z16 VCH1192 VCH1236
	C515, C522, C525, C562, C565	CCSRCH102J50	RESIS	TORS		
	C572, C575 C719, C749, C759 C741, C751, C761 C720, C750, C760 C718, C748, C758	CCSRCH102J50 CCSRCH150J50 CCSRCH180J50 CCSRCH270J50 CCSRCH330J50		R461, F	1972, R975 1475, R481, R495, R511 1532, R535, R561, R571	RAB4C103J RAB4C220J RN1/16SE1202D RN1/16SE1202D RN1/16SE1202D
	C412, C715, C716 C717, C747, C757 C631 C477, C497, C532, C533, C579 C581	CCSRCH470J50 CCSRCH7R0D50 CCSRCH821J25 CCSRCH821J50 CCSRCH821J50		R517, R R574, R R462, R	467, R484, R487, R514 524, R527, R564, R567 577 465, R482, R485, R512 522, R525, R562, R565	RN1/16SE1502D RN1/16SE1502D RN1/16SE1502D RN1/16SE2201D RN1/16SE2201D
	C312, C339 C306, C310 C710, C714, C746 C431, C511, C514, C521, C524 C561, C564, C571, C574	CEAL101M6R3 CEAL470M16 CEAT100M50 CEAT101M16 CEAT101M16		R533, R	575 476, R494, R496, R531 534, R536, R581 584, R586	RN1/16SE2201D RN1/16SE3301D RN1/16SE3301D RN1/16SE3301D RS1/16S1001F
	C700, C701, C736, C738, C793 C397, C603, C725, C752, C787 C789, C796, C798, C910, C912 C914, C918, C921, C923, C951 C821, C831	CEAT101M16 CEAT101M6R3 CEAT101M6R3 CEAT101M6R3 CEAT102M6R3		R666 R428 R952		RS1/16S1201F RS1/16S1501F RS1/16S2201D RS1/16S3001F RS1/16S3300D

Mark	No. Description	Part No.	Mark No. Desc	ription	Part No.
	R954	RS1/16S3300F	COILS AND FILTI	ERS	
	R652-R654, R672, R676, R680 R669, R684, R688, R692	RS1/16S4700F	L702, L704, L7		LAU100J
	R801, R803, R805, R807, R809	RS1/16S5600F RS1/16S62R0D	L701, L703, L7		LAU4R7J
	R811, R821, R823, R827, R831	RS1/16S62R0D	L901		LCYA1R0J2520
	11011, 11021, 11020, 11021, 11031	1101/100021102	F721F723 1	2MHz LPF(VIDEO)	VTF1175
	R833, R837	RS1/16S62R0D	L1020, L1512		VTL1084
	R649-R651, R674, R678, R682	RS1/16S6800F			
	R427	RS1/16S6801D		L300 CHIP BEADS	VTL1084
	R655, R657	RS1/16S6801F		70 CHIP BEADS	VTL1084
	Other Resistors	RS1/16S⊡□□J	L386, L441 C		VTL1084
				51 CHIP BEADS	VTL1084
OTH	ERS		L821, L822, L8	31, L832 CHIP BEADS	S V I L 1089
	CN303 CONNECTOR 14P	14P-FJ	CARACITORS		
	CN301 15P CONNECTOR	15P-1.25FJ	CAPACITORS		
	CN403 JACK	AKN1006		483, C486, C513	CCSRCH101J50
	JA702 SOCKET	AKP7116		526, C563, C566	CCSRCH101J50
	CN704 D-SOCKET(14P)	AKP7170	C573, C576		CCSRCH101J50
				482, C485, C512	CCSRCH102J50
	JA402 OPT, LINK OUT	GP1FA502TZ	C515, C522, C	525, C562, C565	CCSRCH102J50
	PCB BINDER	VEF1040	C572, C575		CCCDCI HAQUEA
	JA701 JACK	VKB1123	C719, C749, C	760	CCSRCH102J50 CCSRCH150J50
	JA502 JACK	VKB1125	C741, C751, C		CCSRCH180J50
	JA501 JACK	VKB1129	C720, C750, C		CCSRCH270J50
	JA703 JACK	VKB1151	C718, C748, C		CCSRCH330J50
	JA401 JACK	VKB1160	2. 10, 2. 10, 0		00011011000000
	CN703 7P CONNECTOR	VKN1267	C412, C715, C	716	CCSRCH470J50
	CN304 19P CONNECTOR	VKN1775	C717, C747, C	757	CCSRCH7R0D50
	CN302, CN601 B TO B CONNECTOR 40		C631		CCSRCH821J25
				532, C533, C579	CCSRCH821J50
	SHIELDING PLATE	VNF1124	C581		CCSR0H821J50
			C312, C339		CEAL 104 MCD0
	11/ ID 1001/		C306, C310		CEAL101 M6R3 CEAL470M16
U	AVJB ASSY		C710, C714, C	746	CEAT100M50
	(VWV1875 : WLXJ/NC, V	VI X.I/RD)		514, C521, C524	CEAT101 M16
	•	TEXO/IID/	C561, C564, C		CEAT101 M16
	CONDUCTORS				
	IC601	ADV7300KST	. C700, C701, C		CEAT101 M16
Δ	IC301	BA25BC0FP		725, C752, C787	CEAT101 M6R3
	IC921	BA25BC0FP		798, C910, C912	CEAT101 M6R3
	IC441, IC501, IC551 IC902	CS4392D-KS	C821, C831	921, C923, C951	CEAT101 M6R3
	10902	K4S643232E-TC60	0021, 0031		CEAT1(2M6R3
	IC701, IC702	LA7138M	C394		CEAT1ROM50
	IC442, IC502, IC552	NJM5532MD		305, C806, C823	CEAT471 M6R3
Δ	IC422	NJM78M05FA	C825, C833, C		CEAT471 M6R3
	IC331	PD0274A	C443, C503, C	553	CEHATIFIOM50
	IC901	PM0033A	C445, C505, C	555	CEHAT220M50
	10.00				
Δ	IC421	PQ15RW11	C423, C427, C		CEHAZA 1 01 M16
	IC333, IC351, IC371	TC74VHC157FT	C429, C452, C		CEHAZI221M16
	IC1503, IC361, IC362	TC7SH32FU	C338, C356, C3		CEHAZI 221M6R3
	IC1502	TC7SH86FU	C517, C527, C5		CEHAZI470M35
	IC332, IC334, IC352, IC353	TC7SHU04FU	C425, C442, C	002, 0552	CEHAZI4-71M6R3
			C705, C740		CEHAZI331M16
	IC1505	TC7WH157FU			
	IC1505 IC1501	TC7WH157FU TC7WH74FU		326	
	IC1501	TC7WH74FU	C1055, C324-C		CKSRY8 1 03K50
	IC1501 Q442, Q446, Q502, Q506, Q552	TC7WH74FU 2SA1037K	C1055, C324-C C1041-C1043,	C1501, C712	CKSRY81 03K50 CKSRY81 04K16
7	IC1501	TC7WH74FU	C1055, C324-C	C1501, C712	CKSRY81 03K50 CKSRY81 04K16 CKSRY81 04K16
7	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S	C1055, C324–C C1041–C1043, C733, C734, C8 C632	C1501, C712	CKSRY81 03K50 CKSRY81 04K16
7	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920	C1501, C712 809, C810	CKSRY81 03K50 CKSRY81 04K16 CKSRY81 04K16 CKSRY83 92K50 CKSRY81 03Z50
Δ	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421 Q391 Q444, Q448–Q452, Q456, Q457	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K 2SD2114K	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920 C1505, C333, C	C1501, C712 309, C810 351, C371	CKSRY81 03K50 CKSRY81 04K16 CKSRY81 04K16 CKSRY83 92K50 CKSRY83 03Z50 CKSRY81 04Z25
7	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421 Q391 Q444, Q448–Q452, Q456, Q457 Q504, Q508, Q554, Q558	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K 2SD2114K 2SD2114K	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920 C1505, C333, C C382, C383, C3	C1501, C712 309, C810 351, C371 392, C396, C398	CKSRY81 03K50 CKSRY81 04K16 CKSRY81 04K16 CKSRY83 92K50 CKSRY8 03Z50 CKSRY8 04Z25 CKSRY8 04Z25
7	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421 Q391 Q444, Q448–Q452, Q456, Q457 Q504, Q508, Q554, Q558 Q1001, Q1002, Q441, Q443, Q445	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K 2SD2114K 2SD2114K DTC114YK	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920 C1505, C333, C C382, C383, C3 C411, C426, C4	C1501, C712 309, C810 351, C371 92, C396, C398 44, C447, C504	CKSRY81 03K50 CKSRY81 04K16 CKSRY81 04K16 CKSRY83 92K50 CKSRY8 03Z50 CKSRY8 04Z25 CKSRY8 04Z25 CKSRY8 04Z25
Δ	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421 Q391 Q444, Q448–Q452, Q456, Q457 Q504, Q508, Q554, Q558	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K 2SD2114K 2SD2114K	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920 C1505, C333, C C382, C383, C3 C411, C426, C4	C1501, C712 309, C810 351, C371 392, C396, C398	CKSRY81 03K50 CKSRY81 04K16 CKSRY81 04K16 CKSRY83 92K50 CKSRY8 03Z50 CKSRY8 04Z25 CKSRY8 04Z25
4	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421 Q391 Q444, Q448–Q452, Q456, Q457 Q504, Q508, Q554, Q558 Q1001, Q1002, Q441, Q443, Q445 Q447, Q501, Q503, Q505, Q507	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K 2SD2114K 2SD2114K DTC114YK DTC114YK	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920 C1505, C333, C3 C382, C383, C3 C411, C426, C4 C508, C554, C8	C1501, C712 309, C810 C351, C371 192, C396, C398 144, C447, C504 558, C602, C604	CKSRY81 03K50 CKSRY81 04K16 CKSRY81 04K16 CKSRY83 92K50 CKSRY83 92K50 CKSRY81 04Z25 CKSRY81 04Z25 CKSRY81 04Z25 CKSRY81 04Z25 CKSRY81 04Z25
Δ	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421 Q391 Q444, Q448–Q452, Q456, Q457 Q504, Q508, Q554, Q558 Q1001, Q1002, Q441, Q443, Q445 Q447, Q501, Q503, Q505, Q507	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K 2SD2114K 2SD2114K DTC114YK DTC114YK	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920 C1505, C333, C C382, C383, C3 C411, C426, C4 C508, C554, C8	C1501, C712 309, C810 351, C371 192, C396, C398 144, C447, C504 558, C602, C604 311, C671–C673	CKSRY# 03K50 CKSRY# 04K16 CKSRY# 04K16 CKSRY# 92K50 CKSRY# 03Z50 CKSRY# 04Z25 CKSRY# 04Z25 CKSRY# 04Z25 CKSRY# 04Z25 CKSRY# 04Z25
Δ	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421 Q391 Q444, Q448–Q452, Q456, Q457 Q504, Q508, Q554, Q558 Q1001, Q1002, Q441, Q443, Q445 Q447, Q501, Q503, Q505, Q507	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K 2SD2114K 2SD2114K DTC114YK DTC114YK	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920 C1505, C333, C C382, C383, C3 C411, C426, C4 C508, C554, C8 C681–C683, C7	C1501, C712 309, C810 351, C371 92, C396, C398 44, C447, C504 58, C602, C604 311, C671–C673	CKSRY# 03K50 CKSRY# 04K16 CKSRY# 04K16 CKSRY# 03Z50 CKSRY# 04Z25
Δ	IC1501 Q442, Q446, Q502, Q506, Q552 Q556, Q601–Q606, Q701–Q708 Q421 Q391 Q444, Q448–Q452, Q456, Q457 Q504, Q508, Q554, Q558 Q1001, Q1002, Q441, Q443, Q445 Q447, Q501, Q503, Q505, Q507	TC7WH74FU 2SA1037K 2SA1037K 2SC1740S 2SC2412K 2SD2114K 2SD2114K DTC114YK DTC114YK	C1055, C324–C C1041–C1043, C733, C734, C8 C632 C920 C1505, C333, C3 C382, C383, C3 C411, C426, C4 C508, C554, C8 C681–C683, C7 C706–C709, C7	C1501, C712 309, C810 351, C371 192, C396, C398 144, C447, C504 558, C602, C604 311, C671–C673	CKSRY# 03K50 CKSRY# 04K16 CKSRY# 04K16 CKSRY# 92K50 CKSRY# 03Z50 CKSRY# 04Z25 CKSRY# 04Z25 CKSRY# 04Z25 CKSRY# 04Z25 CKSRY# 04Z25

Mark		Description	Part No.	Mark	No.	Description	Part No.
	C1048	3, C1049, C1440, C1502-C15	04CKSRYF105Z10				
	C1506	6, C1591, C2042, C301, C303	CKSRYF105Z10		AV/ ID	ASSY (VWV1876	. 14/1/// 15
		C307, C320, C321	CKSRYF105Z10		AVJD	4221 (AMA1819)	: WYXJ)
		C332, C334, C335 -C354, C372, C422, C424	CKSRYF105Z10 CKSRYF105Z10	CEM	COND	HOTODO	
	0002-	-0334, 0372, 0422, 0424	CKSHTF105Z10	SEIMI		UCTORS	
	C428.	C441, C451, C475, C501	CKSRYF105Z10		IC601		ADV7300KST
		C529, C551, C556, C582	CKSRYF105Z10	Δ	IC301		BA25BC0FP
	C605-	-C607, C609, C612-C614	CKSRYF105Z10		IC921	IOEO4 IOEE4	BA25BC0FP
	C619,	C911, C913, C919	CKSRYF105Z10		IC902	IC501, IC551	CS4392D-KS
	C925-	-C950, C952C965	CKSRYF105Z10		10302		K4S643232E-TC60
					IC701,	IC702	LA7138M
		C420, C421	CKSRYF224Z16		IC708		MM1506XN
		C464, C481, C484 (100μF) C487 (47μF)	VCH1192		IC710		MM1508XN
	C407,	C467 (47µF)	VCH1236		IC706,		MM1509XN
DECIG	TOD			•	IC442,	IC502, IC552	NJM5532MD
NEOK	STORS			A	10400		A
	R961-		RAB4C103J	Δ	IC422 IC331		NJM78M05FA
		R972, R975	RAB4C220J		IC901		PD0274A PM0033A
	DE01	R475, R481, R495, R511 R532, R535, R561, R571	RN1/16SE1202D	\triangle	IC421		PQ15RW11
	R582,		RN1/16SE1202D RN1/16SE1202D	_		IC351, IC371	TC74VHC157FT
	1 1002,	11303	HN1/165E1202D		,		10/4///015/17
	R464.	R467, R484, R487, R514	RN1/16SE1502D		IC1503	, IC361, IC362	TC7SH32FU
		R524, R527, R564, R567	RN1/16SE1502D		IC1502		TC7SH86FU
	R574,	R577	RN1/16SE1502D			IC334, IC352, IC353	TC7SHU04FU
	R462,	R465, R482, R485, R512	RN1/16SE2201D		IC1505		TC7WH157FU
	R515,	R522, R525, R562, R565	RN1/16SE2201D		IC1501		TC7WH74FU
	D.E.70	Deze			0442 (Q446, Q502, Q506, Q552	00440071/
	R572, I	R476, R494, R496, R531	RN1/16SE2201D		Q556. (2601-Q606, Q701-Q708	2SA1037K 2SA1037K
		R534, R536, R581	RN1/16SE3301D RN1/16SE3301D		Q768. C	2771, Q774, Q981–Q983	2SA1037K
		R584, R586	RN1/16SE3301D	lack	Q421		2SC1740S
	R667	1,1,000	RS1/16S1001F		Q391		2SC2412K
		R728, R953	RS1/16S1201F		Q444, (Q448-Q452, Q456, Q457	2SD2114K
	R666		RS1/16S1501F		Q504, C	2508, Q554, Q558	2SD2114K
	R428		RS1/16S2201D		O503 (Q443, Q445, Q447, Q501 Q505, Q507, Q551, Q553	DTC114YK
	R952	R751, R761	RS1/16S3001F		Q555, C		DTC114YK DTC114YK
	1741, 1	1/51, 1/61	RS1/16S3300D		4,000, 0		DICHAIR
	R954		RS1/16S3300F		D411, D	423, D721-D728	1SS355
		R654, R672, R676, R680	RS1/16S4700F				
	R669, F	R684, R688, R692	RS1/16S5600F	COILS	AND	FILTERS	
	R801, F	R803, R805, R807, R809	RS1/16S62R0D			704, L706	LAU100J
	R811, F	R821, R823, R827, R831	RS1/16S62R0D			703, L705	LAU4R7J
	D000 F	200=			L901		LCYA1R0J2520
	R833, F		RS1/16S62R0D		F706-F	708 6MHz LPF(VIDEO)	VTF1174
	R427	R651, R674, R678, R682	RS1/16S6800F			723 12MHz LPF(VIDEÓ)	VTF1175
	R655, F	3657	RS1/16S6801D RS1/16S6801F				
		Resistors	RS1/16SCCCJ		L1020, I	1512 CHIP BEADS	VTL1084
			110171000000			1533, L300 CHIP BEADS	VTL1084
OTHE	35					368, L370 CHIP BEADS 141 CHIP BEADS	VTL1084
		CONNECTOR 14P	440.51			501, L551 CHIP BEADS	VTL1084 VTL1084
	CN303	15P CONNECTOR	14P-FJ 15P-1.25FJ			101, 2001 OIM BEADO	V1L1004
	CN403		AKN1006		L821, L8	22 CHIP BEADS	VTL1089
		SOCKET	AKP7116				
	CN704	D-SOCKET(14P)	AKP7170	CAPA	CITOR	S	
						466, C483, C486, C513	CCCBCU404 IE0
			GP1FA502TZ			523, C526, C563, C566	CCSRCH101J50 CCSRCH101J50
		BINDER	VEF1040		C573, C	576	CCSRCH101J50
	JA701		VKB1123		C462, C	465, C482, C485, C512	CCSRCH102J50
	J A 502 J A 501		VKB1125		C515, C		CCSRCH102J50
	UN301	JAON	VKB1129				
	JA703	JACK	VKB1151		C572, C		CCSRCH102J50
	J A 401		VKB1160				CCSRCH150J50
			VKN1267				CCSRCH180J50
	CN304	19P CONNECTOR	VKN1775				CCSRCH270J50
	CN302,	CN601 B TO B CONNECTOR 40P	VKN1789		J. 10, O.	-10, 0700	CCSRCH330J50
	Curr	DING BLATE	1015110				
	OMIEL	DING PLATE	VNF1124				

Mark	No.		Part No.	Mark	No.	Description	Part No.
		C715, C716	CCSRCH470J50	RESIS	STOD	<u> </u>	
	C717,	C747, C757	CCSRCH7R0D50	nL3i.			
	C631		CCSRCH821J25			-R963	RAB4C103J
	C477,	C497, C532, C533, C579	CCSRCH821J50		R971,	, R972, R975	RAB4C220J
	C581	, ,	CCSRCH821J50		R461,	R475, R481, R495, R511	RN1/16SE1202D
			000.10.102.1000			R532, R535, R561, R571	RN1/16SE1202D
	C312	C339	CEAL101M6R3			R585	RN1/16SE1202D
						11000	111V1710SE 1202D
		C310	CEAL470M16	•	DAGA	R467, R484, R487, R514	DN4/400E4 F00D
		C714, C722, C746, C753	CEAT100M50				RN1/16SE1502D
	C762		CEAT100M50			R524, R527, R564, R567	RN1/16SE1502D
	C431,	C511, C514, C521, C524	CEAT101M16		R574,		RN1/16SE1502D
					R462,	R465, R482, R485, R512	RN1/16SE2201D
	C561.	C564, C571, C574	CEAT101M16		R515,	R522, R525, R562, R565	RN1/16SE2201D
		C701, C736, C738, C793	CEAT101M16				
	C397	C603, C725, C752, C787	CEAT101M6R3		R572.	R575	RN1/16SE2201D
		C796, C798, C910, C912	CEAT101M6R3			R476, R494, R496, R531	RN1/16SE3301D
	0709,	0010, 0790, 0910, 0912			B533	R534, R536, R581	
	C914,	C918, C921, C923, C951	CEAT101M6R3				RN1/16SE3301D
						R584, R586	RN1/16SE3301D
	C821		CEAT102M6R3		R668		RS1/16S1000F
	C394		CEAT1R0M50				
	C801.	C802, C805, C806, C823	CEAT471M6R3		R667		RS1/16S1001F
	C825	,,,	CEAT471M6R3		R726-	-R728	RS1/16S1201F
		C503, C553			R666		RS1/16S1501F
	O443,	0503, 0555	CEHAT1R0M50		R428		
	0445	0.00	0511470001100		R953		RS1/16S2201D
		C505, C555	CEHAT220M50		naos		RS1/16S2201F
		C427, C791, C795	CEHAZA101M16				
	C429,	C452, C507, C557	CEHAZA221M16			R736, R738	RS1/16S3000D
	C338,	C356, C375, C601	CEHAZA221M6R3		R741,	R751, R761	RS1/16S3300D
		C527, C567, C577	CEHAZA470M35		R954		RS1/16S3300F
	,		04.17.47.017.00		R746,	R748	RS1/16S3301F
	CARE	C442, C502, C552	CEUAZA 47414CDO			R986, R990	RS1/16S3900F
			CEHAZA471M6R3		11002,	11300, 11330	H31/1033900F
	C705,		CEHAZL331M16		Doso		201110001010
		, C324–C326	CKSRYB103K50		R952	Daga Bara Bara Bara	RS1/1685101F
	C1041	-C1043, C1501, C712, C721	CKSRYB104K16			R672, R676, R680, R684	RS1/16S5600F
	C733,	C734, C780, C781	CKSRYB104K16		R688,		RS1/16S5600F
					R747,	R749	RS1/1685601F
	C809,	C810	CKSRYB104K16		R801,	R803, R805, R807, R809	RS1/16S62R0D
	C632		CKSRYB392K50		•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	C920		CKSRYF103Z50		R811	R821, R823, R827	RS1/16S62R0D
		, C333, C351, C371				R654, R674, R678, R682	RS1/16S6800F
			CKSRYF104Z25			11004, 11074, 11076, 11002	
	C382,	C383, C392, C396, C398	CKSRYF104Z25	•	117667	Doca	RS1/1686801D
					R655,		RS1/16S6801F
		C426, C444, C447, C504	CKSRYF104Z25		R949-	R951	RS1/16S68R0F
	C508,	C554, C558, C602, C604	CKSRYF104Z25				
	C608.	C610, C611, C671-C673	CKSRYF104Z25		Other I	Resistors	RS1/16S□□□J
		C683, C702-C704	CKSRYF104Z25				
		C709, C723, C737, C739	CKSRYF104Z25	OTHE	DC.		
	0,00	0100, 0120, 0101, 0105	01/3/11/104223	OTHE			
	C745	C7E4 C769 C769 C774	OVODVE40470F		CN303	CONNECTOR 14P	14P-FJ
		C754, C763, C768, C771	CKSRYF104Z25			15P CONNECTOR	15P-1.25FJ
		C788, C790, C792, C794	CKSRYF104Z25			JACK	AKN1006
		C851, C852, C857, C860	CKSRYF104Z25			SOCKET	
	C862,	C871, C922, C924	CKSRYF104Z25				AKP7116
	C981-	C983	CKSRYF104Z25		JA402	OPT. LINK OUT	GP1FA502TZ
	C1048	, C1049, C1440, C1502-C1504	4CKSRVE105710			BINDER	VEF1040
		, C1591, C2042, C301, C303			JA701	JACK	VKB1123
		C307, C320, C321			JA502	JACK	VKB1125
			CKSRYF105Z10		JA501	JACK	VKB1129
		C332, C334, C335	CKSRYF105Z10			JACK	VKB1151
	C352-	C354, C372, C422, C424	CKSRYF105Z10		5, 1, 00	U7 1011	AUDITO
					10404	IACK	10004404
	C428. (C441, C451, C475, C501	CKSRYF105Z10			JACK	VKB1160
		C529, C551, C556, C582	CKSRYF105Z10			16P CONNECTOR	VKN1247
		C607, C609, C612–C614	CKSRYF105Z10		CN703	7P CONNECTOR	VKN1267
					CN304	19P CONNECTOR	VKN1775
		C911, C913, C919	CKSRYF105Z10		CN302	, CN601 B TO B CONNECTOR 40F	VKN1789
	C925-(C950, C952–C965	CKSRYF105Z10			,	7.4411 OV
					SHIE	LDING PLATE	VNE1104
		C420, C421	CKSRYF224Z16		OI IIE	LUMUILAIE	VNF1124
	C461, 0	C464, C481, C484 (100µF)	VCH1192				
		C487 (47µF)	VCH1236				

Mark No. Description Part No. Mark No. Description Part No. SCRB ASSY (WYXJ ONLY) **PWSB ASSY SEMICONDUCTORS** SEMICONDUCTORS Q212 2SA1037K SLR-56VC(NPQ) Q211, Q311-Q313, Q401, Q403 2SC2412K D301, D401 1SS355 **SWITCHES AND RELAYS** S201, S202 ASG7013 **SWITCHES AND RELAYS** RY101, RY102, RY201 VSR1016 **RESISTORS** RY203, RY301 VSR1016 All Resistors RS1/16S&&&J **CAPACITORS OTHERS** C103-C110 CCSRCH391J50 C221, C241, C251, C315 **CEAT101M10** CN201 CONNECTOR 7P 07P-FJ C321, C331 CEAT471M10 C101, C102, C11, C201, C203 CKSRYF104Z25 C21, C212, C215, C301 CKSRYF104Z25 C311, C312, C314, C402, C403 CKSRYF104Z25 KEYB ASSY C94 CKSRYF104Z25 **SWITCHES AND RELAYS** RESISTORS S251-S256 ASG7013 R215, R223, R242, R252, R321 RS1/16S68R0F R331 RS1/16S68R0F **RESISTORS** Other Resistors RS1/16SDDDJ **All Resistors** RS1/16S0000J **OTHERS OTHERS** JA101, JA102 CONNECTOR CN101 16P CONNECTOR VKB1157 VKN1247 CN251 CONNECTOR 4P 04P-FJ PRINTED CIRCUIT BOARD VNP1838 POWER SUPPLY UNIT FLIR ASSY **OTHERS** SEMICONDUCTORS P101 PROTECTOR(1.6A) **AEK7066** IC101 Δ F001 FUSE 1.25A PE5251A **REK1099** IC103 PST3242 IC111 TSOP1840XG1 **COILS AND FILTERS** DILB ASSY (Except KUXJ/CA) L101 LAU680J **SEMICONDUCTORS CAPACITORS** D291 NSPB500-0008 C111, C112, C121, C122 CCSRCH102J50 D292 UDZS6.2B C132 CEAL101M6R3 C105, C142, C152 CEAL470M16 **CAPACITORS** C102, C103 CKSRYF104Z25 C291 CKSRYF105Z10 C107 CKSRYF104Z50 RESISTORS C101, C104, C106, C108 CKSRYF105Z10 C131, C141 CKSRYF105Z10 All Resistors RS1/16SIIIIII C143, C151 CKSRYF224Z16 **OTHERS RESISTORS** CN291 CONNECTOR POST B2B-PH-K **All Resistors** RS1/16SDDDJ **OTHERS** CN103 CONNECTOR 4P 04R-FJ CN102 CONNECTOR 7P 07R-FJ CN101 15P CONNECTOR 15R-1.25FJ V101 FL TUBE VAW1065

FL HOLDER

X101 (5MHz)

VNK4748

VSS1142

Mark No. Description Part No.

J SACD ASSY

SEMICONDUCTORS

 ▲
 IC903
 BA25BC0FP

 IC801
 CXD2753R

 IC802
 HY57V161610DTC-8

 IC804
 TC74VHC74FT

 IC803
 TC7SH08FU

COILS AND FILTERS

L801-L805, L807 CHIP BEADS VTL1082

CAPACITORS

C847, C882, C895
C837, C838, C871, C893, C954
C821, C833, C835, C951
C801, C804–C814, C817, C818
C820, C821, C832, C834
C872–C878, C881, C891
C952, C953, C955, C956

CCSRCH100D50
CEHAZA101M16
CEHAZA221M6R3
CKSRYB103K50
CKSRYF105Z10
CKSRYF105Z10
CKSRYF105Z10
CKSRYF105Z10
CKSRYF105Z10
CKSRYF105Z10

RESISTORS

R871, R872 RAB4C103J Other Resistors RS1/16S□□J

OTHERS

CN901 19P CONNECTOR 19R-1.25FJ
PCB BINDER VEF1040
CN801 FFC CONNECTOR VKN1794

6. ADJUSTMENT

6.1 ADJUSTMENT ITEMS AND LOCATION

■ Adjustment Items

[Mechanism Part]

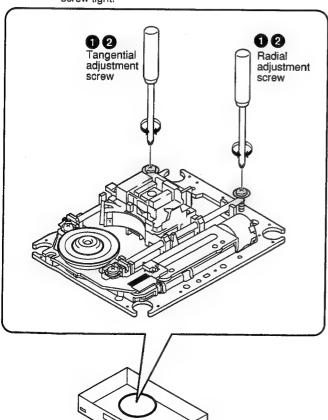
- 1 Tangential and Radial Height Coarse Adjustment
- 2 DVD Jitter Adjustment
- 3 Initialize the Focus Sweep Setting

[Electrical Part]

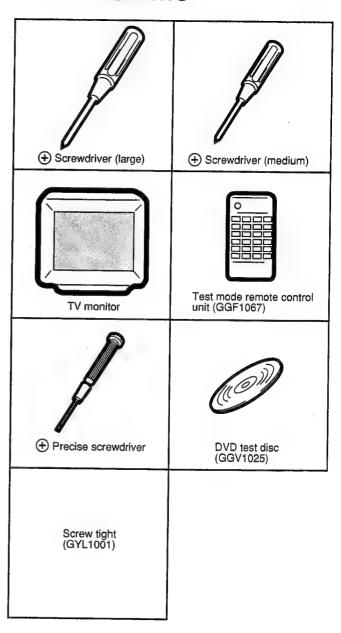
Electrical adjustments are not required.

Adjustment Points (Mechanism Part)

Cautions: After adjustment, adjustment screw locks with the Screw tight.

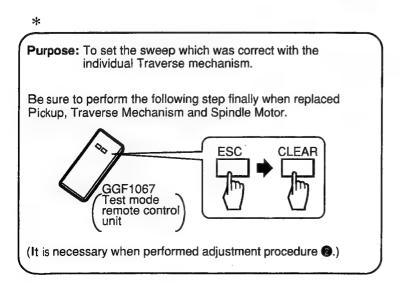


6.2 JIGS AND MEASURING INSTRUMENTS



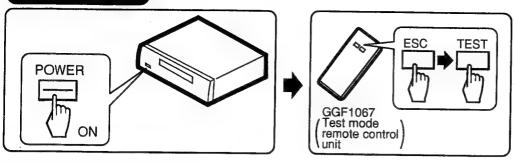
6.3 NECESSARY ADJUSTMENT POINTS

When ■ Exchange Parts of Mechanism A		Adjustment	Points
Exchange the Pickup		0, 0, 3	* After adjustment, screw locks with the Screw tight.
	Electric point		
Exchange the Traverse Mechanism	Mechanical point	3	
	Electric point		
Exchange the Spindle Motor	Mechanical point	9, 6	* After adjustment, screw locks with the Screw tight.
	Electric point		
Exchange PCB Assy			
Exchange PC Board	Mechanical point		
LOAB, DVDM ASSY	Electric point		



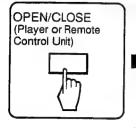
6.4 TEST MODE

TEST MODE: ON

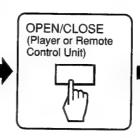


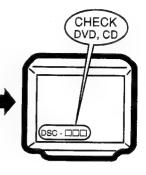
TEST MODE: DISC SET

<TRAY OPEN>



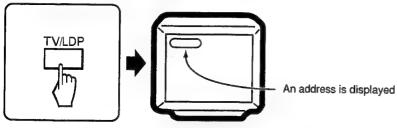






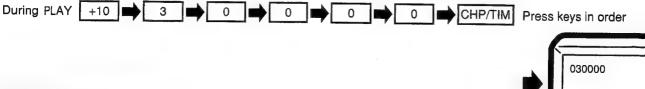
TEST MODE: PLAY

<PLAY>

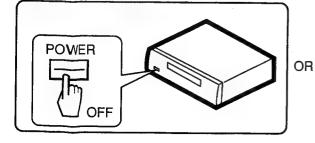


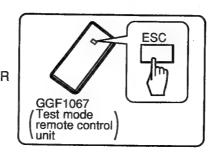
< When playback with the target address of disc (DVD)>

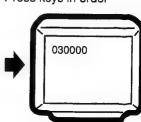
For example, when playback with # 30000



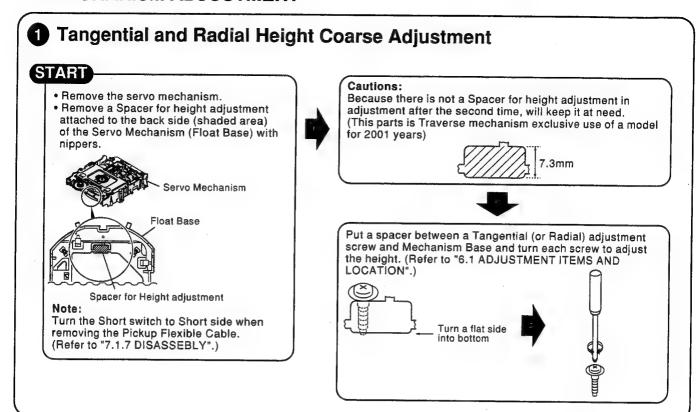
TEST MODE: OFF

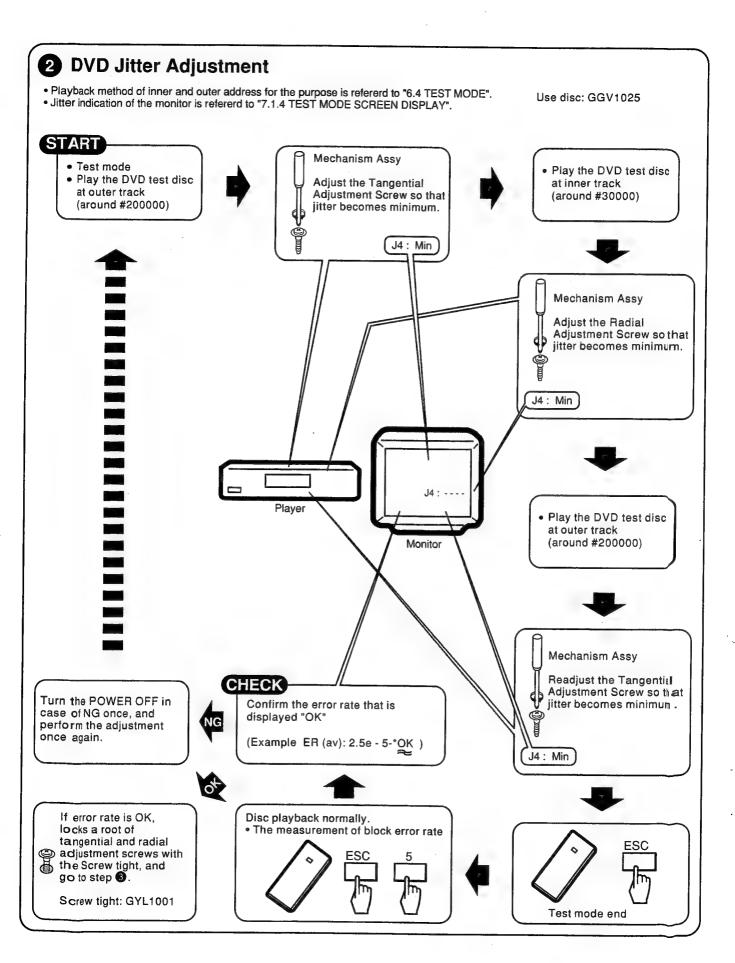






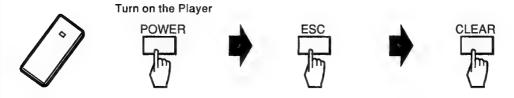
6.5 MECHANISM ADJUSTMENT





3 Initialize the Focus Sweep Setting

Purpose: To set the sweep which was correct with the individual Traverse mechanism.



Note: Be sure to perform this step when replaced the Pickup or Traverse mechanism.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 ID NUMBER AND ID DATA SETTING

Entering the ID Number and ID Data for Players with DVD-Audio Compatibility

It is necessary with a player with DVD-audio compatibility to set an individual number (ID number) and ID data. If the number and data are not set correctly with the following procedure, operations in the future may not be guaranteed. You will find the ID number to be set on the yellow label on the rear panel.

important: If no yellow label is found on the rear panel, write down the specified ID number by checking it according to "How to confirm the ID number" shown below.

The Input is Necessary When:

- Downloading FLASH-ROM is finished. (The latest version must be downloaded when a repair is made.)
- "No ID Number" is displayed on the screen or FL display immediately after the power is turned on or in Stop mode.
- If "No ID DATA" is displayed, the ID data must be entered.

Note

Be sure to enter the ID number in Stop mode.

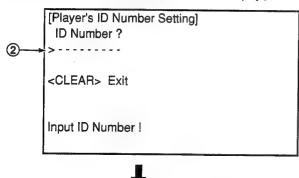
Use the service remote control (GGF1067) for operations. Only opening/closing of the tray are performed from the player.

How to input the ID Number and ID Data

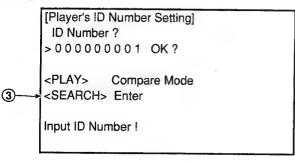
(1) To enter the input mode, press[ESC]+[STEREO] in a status with no ID number set, such as after FLASH-ROM downloading.



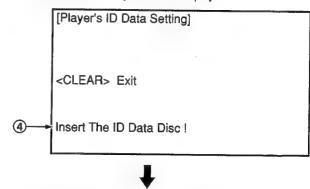
② As number input is enabled when the unit enters the input mode, input the 9-digit ID number. (The entered number is also displayed on the FL display.)



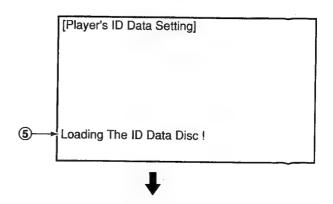
After inputting the number, press SEARCH to register the ID number.



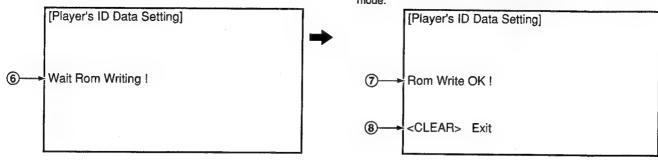
When the ID number has been registered, the unit enters the ID data input mode. (The FL display indicates "NO ID DATA.") In this condition, place the ID data disc on the tray and close the tray using the CLOSE key "■/≜" on the player.



(5) While the data are being read, the message shown in the i gure at left is displayed on the screen. (The FL display indicates "RD ID DATA.")

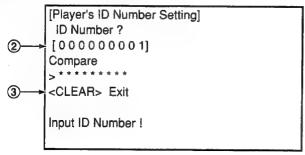


- (6) When the ID data have been read, the data are written to the FLASH-ROM. (The FL display indicates "WR ID DATA.")
- (7) When the ID data have been written to the FLASH-ROM, the message "Rom Write OK" is displayed on the screen. (The FL display indicates "ID DATA OK.")
- (8) After confirming this message, press CLEAR to exit the input mode.



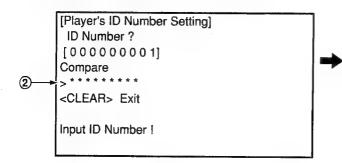
How to Confirm the ID Number

- Press ESC + STEREO with an ID number set, and the unit enters the ID number confirmation mode.
- ② The set ID number is displayed on the screen (and on the FL display), permitting you to confirm it.
- 3 To exit this mode, press CLEAR



How to Clear the ID Number

- Terss ESC + STEREO with an ID number set, and the unit enters the ID number confirmation mode.
- 2 Input the same number as the ID number you have set.

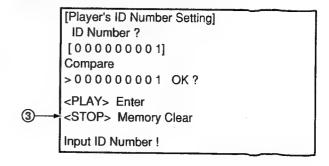


(3) After inputting the number, press[STOP].

Only when the entered number matches the set IDm umber, the ID number is cleared and the unit exits this mode.

If the numbers do not match, you must return to step 2.

([STOP] is not accepted until 9 digits are entered.)



7.1.2 SELF-DIAGNOSTIC FUNCTION OF PICKUP DEFECTIVE

This unit can confirm the laser diode current value (DVD: 650nm, CD: 780nm) of pickup on the Test Mode screen. (Press the $|ESC| \rightarrow |TEST|$ keys in order on the test mode remote control unit (GGF1067) to enter the test mode.)

It's effective in case of the following condition.

Symptom

- Indicates "No Disc" in FL display.
- · Player does not playback, etc..

Procedure of Self-Diagnosis

- ① Enter the Test mode.
- ② When diagnosing the 650nm laser diode:

Press the TEST → 1 keys in order, and turn on the laser diode (It light-up for nine seconds.).

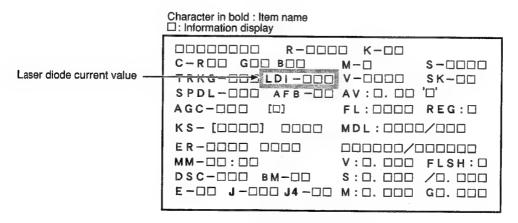
When diagnosing the 780nm laser diode:

Press the TEST → 4 keys in order, and turn on the laser diode (It light-up for nine seconds.).

When let it turn on once again after performed ② once, After pressed REP.B key once 650nm: Press the TEST → 1 keys in order [780nm: Press the TEST] → [4] keys in order

- 3 Confirm the indicated value of the laser diode current (LDI). (Refer to following figure.)
- When indicated value is more than 100, pickup is defective. → Replacement is necessary Replace the Traverse Mechanism Assy or Pickup.

Note: When a DVD disc or a CD disc is played in the test mode, this function is effective.

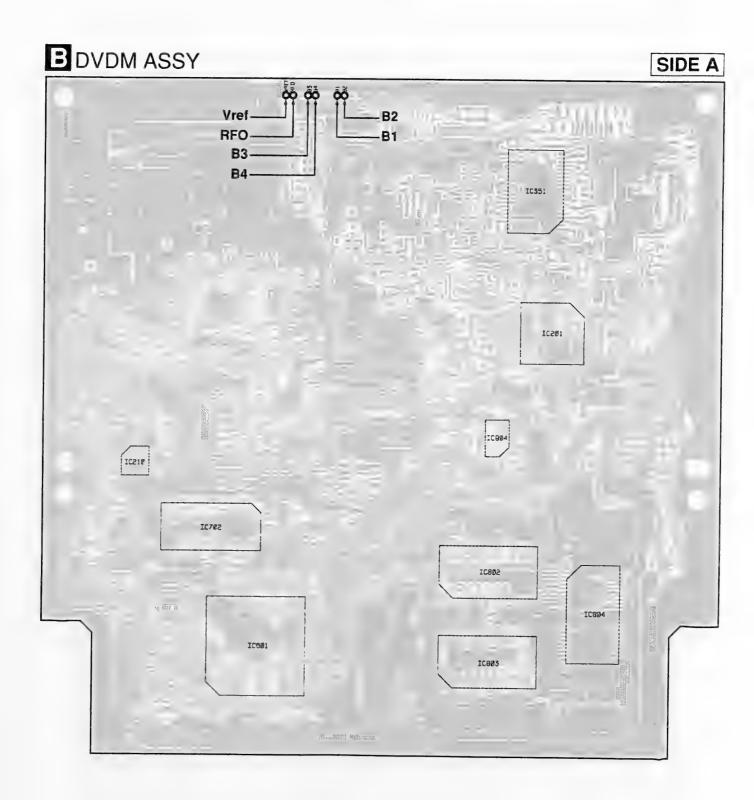


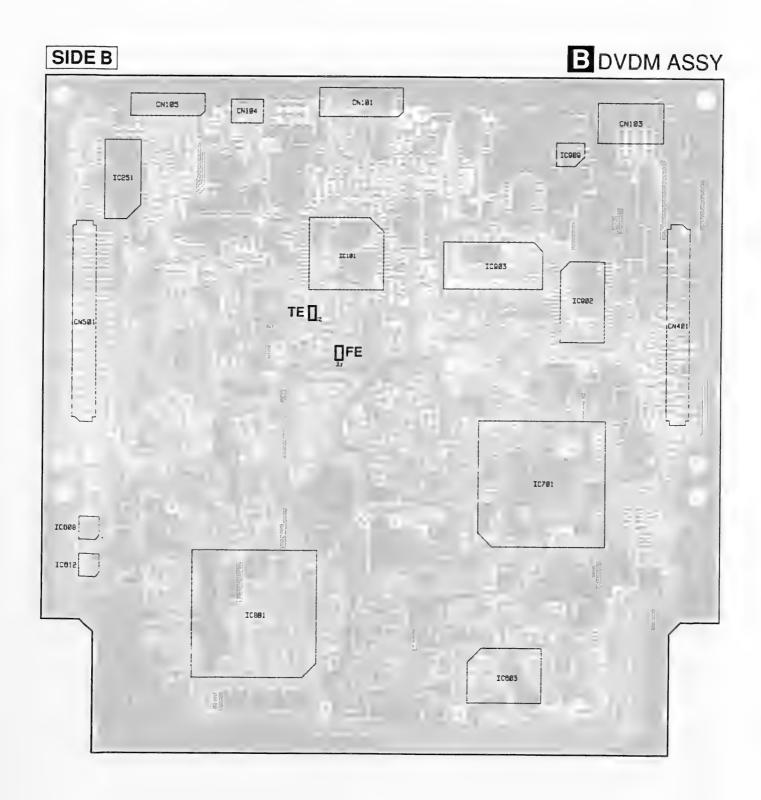
Test Mode Screen Display

7.1.3 TEST POINTS LOCATION

This model has not test terminal.

Please use following points on the DVDM Assy when checking RF, FE and TE, etc..





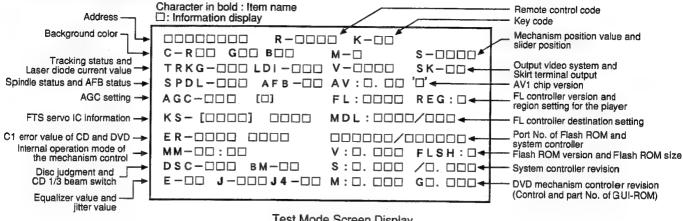
7.1.4 TEST MODE SCREEN DISPLAY

■ TEST MODE SCREEN DISPLAY

When the test mode is entered, press the ESC button and the TEST button in order of the test mode remote control unit (GGF1067).

Consecutive double-OSD display is supported during test mode. The screen is composed 10 lines with a maximum of 32 characters per line. It can't be used with the debugging display mode together.

Screen Composition



Test Mode Screen Display (First Screen Display)

Caution:

The first screen and second screen switch by pressing [DISPLAY] key of the remote control unit.

It is only a version display part on the lower right of the screen those contents of display change.

ATB: ON/OFF information display and AGC manual setting display deleted with the second generation.

The displays of Tilt error value, Tilt servo status and pickup DVD/CLD display deleted with the third generation becomes LD part is deleted.

Description of Each Item on the Display

(1) Address indication

The address being traced is displayed in number. DVD: ID indication (hexadecimal number, 8 digits)

CD: A-TIME (min. sec.) [0000****]

(Note: For DVDs, decimal-number indication is possible.)

(2) Code indication of the remote control unit [R - * * * *]

The code for the key pressed on the remote control unit, which is received by the FL controller, is displayed while the key is pressed. In the case of the double code, the second code will be displayed.

(3) Key code indication for the main unit [K -- * *]

The code for the key pressed on the main unit, which is received by the system controller, is displayed while the key is pressed.

- (4) Background color indication [C R* * G* * B* *]
- (5) ① Tracking status [TRKG ***]

Tracking on [ON] Tracking off [OFF]

② Laser diode current value [LDI - ***]

(6) ①	Spindle status [SPDL * * *]]
	Spindle accelerator and brake, fre	- -0-1

I G SCIVO	[FG]
Rough, velocity phase servo	[SRV]
Offset addition, rough, velocity phase servo	[O_S]
② AFB status [AFB - * *]	
ON	[ON]
OFF	[OFF]

(7) Mechanism position value [M - *]

Position code [1] to [3]

(8) Slider position [S - * * * *]

CD TOC area IN] CD active area [CD]

(9) AGC setting [AGC -- * *]

AGC on AGC-ON] AGC off AGC-OFF]

[A/B]

[OFF]

(10) Output video system [V * * * *	.1
NTSC system	[NTSC]
PAL system	[PAL]
Auto-setting	[AUTO]
Skirt terminal output [SK - * *]	[MOTO]
VIDEO	[00]
S-VIDEO	[01]
RGB	[02]
Note: Display only the model which can o	
skirt terminal.	io the output setting of
skat terrimar.	
(11) FTS servo IC information	
	[KS - [* * * *] * * * *]
Displays the address (four digits) of the	
and the setting value (four digits) with [7]	
mie me soming rande (10th digits) with [1	Loi j and [2] keys.
(12) Error rate indication	
① C1 error value of CD	[ER - C1 * * * *]
② C1 error value of DVD	[ER -*******
	[22.
(13) Internal operation mode of med [MM - * * : * *]	hanism controller
Internal mechanism mode (2 digits) and i	internal machanism
step (2 digits) of the mechanism controlle	
stop (2 digits) of the mechanism controlle	J.
(14) ① Disk sensing [DSC - * * *]	
The type of discs loaded is display	ved.
[DVD], [CD], [VCD], []	, 00.
② CD 1/3 beam switch [BM - *	*1
•	•
(15) ① Equalizer value [E - * *]	
② Jitter value [J - * *]	
Make the jitter four times, and ren	ew it in every 0.5
second.	[J4 - * *]
CD is effective only in the jitter va	ilue.
(16) Version of the AV-1 chip [AV : *	.**'*']
(17) ① Version of the FL controller [FL:****]
② Region setting of the player [REG: *]
Setting value	[1] to [6]
	- , . ,
(18) Destination setting of the FL cor [MDL: * * * * / * * *]	ntroller
Four charactors in the front represent the	type of model:
three charactors in the back represent the	
J:/J, K:/KU,/KC,/KU/KC, R:/RAM,	
WY:/WY	,-,-,,,,
(19) The part number of the flash RO	M and system
controller [* * * * * * / * * * * * *]
① Part number of the flash ROM	<front></front>
(Example) $VYW1536-A = W1536A$	
(Example) PD6256A9 = $6256A9$	
② Part number of the system controller	<back></back>
(Evample) DD2281T1 = 2281T1	

- (20) ① Version of the flash ROM [V:*.***]
 ② Flash ROM size [FLSH = *]
- (21) Revision of the system controller [S:*.***/*.**]

 ① Revision number of the external ROM part (flash ROM) of the system controller

 <Front>
 - ② Revision of the internal ROM part of the system controller <Back>

(22) Revision of the DVD mechanism controller [M:*.**]

Revision number of the external ROM part (flash ROM) of the DVD mechanism controller

(23) Control and part numbers of the GUI-ROM [GUI: * * * *]

No GUI model displays as "——/——".

OEM model displays the part number of GUI-ROM [GUI: * * * * *]

(Example) PD3381T1 = 3381T1

■ DEBUGGING SCREEN SPECIFICATION FOR THE MECHANISM CONTROLLER

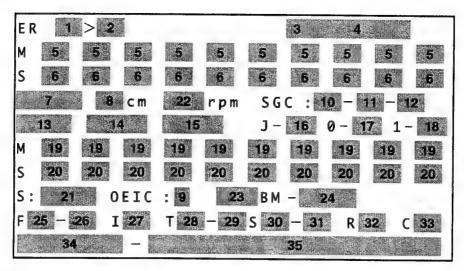
• This specifications is subject to change without notice.

① Indication Method of The Mechanism Controller Debugging Screen

A debugging screen of the mechanism controller is indicated when pressing the test mode remote control unit [GGF1067] in order of the [ESC] and [CHP/TM] buttons.

Releace from debugging screen display of the mechanism controller with the ESC button.

2 Screen Layout



3 Indication Contents

 The error that became the trigger that an error of 2 occurred.

There are many cases same as 2.

2. The error number that transferred to the system controller

Refer to the error list about contents of error number.

- Code read in state (it does not support in this unit)
 When X is indicated, ID or subcode are not able to read in.
 When X is not indicated, they are able to read in.
- 4. ID or subcode (it does not support in this unit) Subcode indicates the A time.
- Inside mode of the mechanism controller when an error of 1 occurred

It can indicate to a maximum 10 mode. Indicate it in order of an old mode from the left, and go right, and become a new mode. Indicate only a nest share of the mode.

6. Processing step of inside mode of 5

It can grasp the mode reaching an error and transition of step by watching 5 and 6 and it can specify the occurrence place of most errors.

7. Disk information in the mechanism controller

? : Indistinctness NO : There is no disc DVD 1 : DVD single layer DVD 2 : DVD dual layer

CD : CD

CDR : CD-R or CD-RW CDR P : PRD of CD-R or CD-RW 8. As a result of 8cm /12cm distinction

? : Indistinctness (undistinction)

8 .: 8 cm 12 : 12 cm

9. OEIC gain (it does not support in this unit)

H: OEIC HIGH gain

L: OEIC LOW gain

10. SGC gain for LD of 780nm

It indicates a step using in the mechanism controller inside with a hexadecimal number.

Set the gain so that S curve becomes 1.8V (p-p) in disc distinction.

11. SGC gain for LD of 650nm For L0.

It indicates a step using in the mechanism controller inside with a hexadecimal number. Set a gain so that S curve becomes 1.8V (p-p) in disc distinction.

12. SGC gain for LD of 650nm For L1.

It indicates a step using in the mechanism controller inside with a hexadecimal number. Set a gain so that a S curve becomes 1.8V (p-p) in disc distinction.

13. RF count value for disc distinction

RF count value to use the disc distinction. It compares threshold value of 14 and 15 and distinguishes the disc.

14. Disc distinction threshold value (DVD and CD) Threshold value of the disc distinction. Distinguish it from DVD if bigger than this value, and distinguish it from CD if small.

Disc distinction threshold value (CD and unrecorded disc)

Threshold value of the disc distinction. Distinguish it from CD if bigger than this value, and distinguish it from an unrecorded disc if small.

16. Current jitter value

Indicate the value that was read in from the SCRUT (IC701) in DVD, and indicate the value that was read in from the servo DSP in CD.

- 17. Focus balance setting value of L0
- 18. Focus balance setting value of L1
- Current mechanism controller inside mode
 (it does not support in this unit)
 It can indicate to a maximum 10 modes. Indicate only a nest share of the mode.
- 20. Processing step of 11 inside modes (it does not support in this unit) It can grasp the current mode, the mode reaching it and transition of step by watching 19 and 20.
- 21. Spindle control state of SCRUT (IC701)

(it does not support in this unit)
OFF: Motor off condition
A/B: Accelerator and brakes

FG: FG servo

RVP : Rough speed phase servo

ORVP: Rough speed phase servo of offset addition

- 22. Rotation number of spindle motor
 Do not FG read in ? indication (during spindle stop).
- 23. Tracking error generation system (it does not support in this unit)

1: 1 beam (DPD)

3: 3 beams

24. TZC count value (it does not support in this unit)

The value that counted the number of TZC for one rotation in the tracking open state.

When this value is more than 512 with CD, set it in 1 beam because the eccentric is large.

DVD does not measure it because it is 1 beam fixed (indication is 0000).

- 25. It indicates the frequency that entered the focus backup Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- It indicates focus backup limit frequency with the hexadecimal number

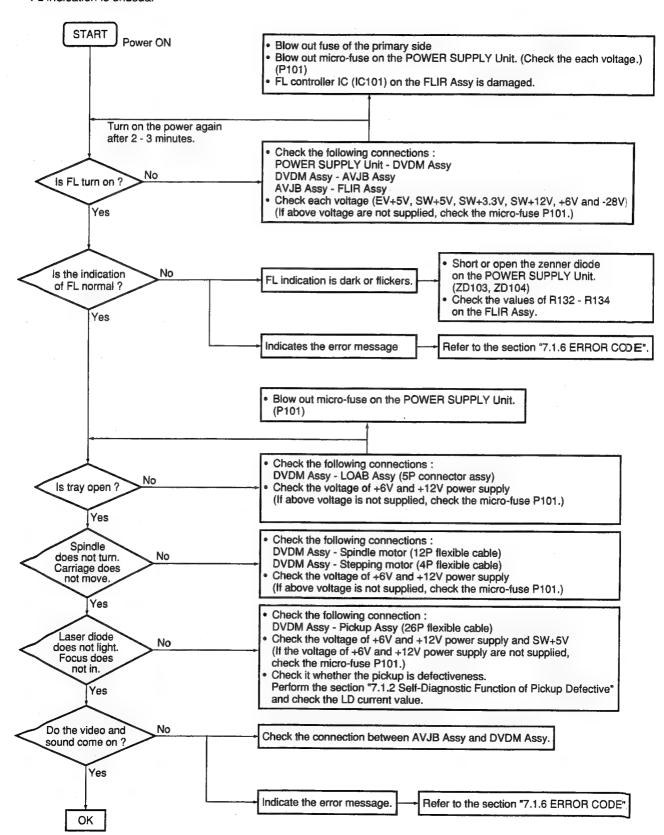
Initial value is 14H, it does decrement whenever enter the focus backup and it gives up backup if it became 0. Then the error is generated. After reverted from the backup, When not enter the backup and pass fixed time (1500ms), return to initial value again.

- 27. It indicates the frequency that entered the internal circumference plunging into backup of the sled Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 28. It indicates the frequency that entered the tracking overrun backup

 Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 29. It indicates the limit frequency of tracking overrun backup with a hexadecimal number Initial value is 03H, it does decrement whenever enter the tracking overrun backup and it gives up backup if it became 0.
- 30. It indicates the frequency that entered sled overrun backup Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 31. It indicates the limit frequency of sled overrun backup with a hexadecimal number Initial value is 03H, it does decrement whenever enter the sled overrun backup and it gives up backup if it became 0.
- 32. It indicates the frequency that entered the tracking close NG backup Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Next of FF is bea 1 byte counter in 00. The hexadecimal number indication which indicates the frequency that reads
- 33. ID/subQ, and entered NG backup Hexadecimal number indication. A counter does not reset it till cuts it off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 34. An address to indicate in 35 Set it by using RS232.I (an address) Set it with DA.
- 35. Contents of an address indicated in 34.

7.1.5 TROUBLE SHOOTING

- No Power ON
- FL is not turned ON
- · FL indication is unusual



7.1.6 ERROR CODE

Error codes that are displayed on the FL display without using the remote control unit

FL Display	Possible causes	Operation of the unit
AV1 VER	AV-1 chip is not a match with the program of system controller	The sound may not out with the specific audio.
CPU AERR	CPU address error (Hardware is unusual.)	No operation
DMA AERR	DMA address error (Hardware is unusual.)	No operation
FLASH ID	Difference in versions of the internal ROM of the system controller and of the flash ROM, or bus line failure or reverse installation	No operation
FLASH WRP	Write protect error of the flash ROM	No operation
FLASH SIG	Difference in part number of the flash ROM (When the ROM which could't be used was used.)	No operation
FLASH SUM	Check sum error of the flash ROM (It exceeds the regular size.) or reverse installation (Hardware is unusual.)	No operation
FLASH SIZE	Size error of the flash ROM (Use 4 or 8 M-bit.)	No operation
ILLGAL	The system controller fetched a code other than an operation code (Hardware is unusual.)	No operation
RESERVE	Undefined interrupt (Hardware is unusual.)	No operation
SLOT	Inappropriate slot command issued (Hardware is unusual.)	No operation
SDSP PWER	Access error to the servo DSP or clock does not oscillation (Hardware is unusual.)	Accept only OFF operation of the POWER key of the main unit. Remote control unit is impossible.

Error codes that are displayed on the FL display by using the remote control unit (Mechanism controller error)

To display: ESC + DISPLAY + DISPLAY; Location of the display: At the two digits of center of the FL display To display the error history: ESC + DISPLAY + One shot; Location of the display: TV screen

FL	Description of Error	Causes if with a DVD	Causes If with a CD	Operation of the Unit
11	Search timeout	Search could not be complete within 7 seconds.	Search could not be complete within 7 seconds, and it could not enter the target area within 7 seconds by VCD scan.	CD : Stops, DVD : Continues operation
12	Search retry error	A search could not be completed after 3 retries, search backup was executed 4 times, or in a case of timeout (6 seconds) while the unit was tracing 11 tracks or more beyond the target while the search operation was converging.	Backup against slider skip was executed 4 times during a search, or slider skip twice resulted in starting from the read-in point.	CD : Stops, DVD : Continues operation
19	Tracing timeout while converging	Timeout (10.5 seconds) while tracing at the stage of convergence of a search.		Stop
18 1	Index 0 search error		During Track (Index) Search, the search for the beginning of a program could not be completed within 3 seconds (20 seconds in the case of Index Search) after positioning based on the TOC data was completed.	Stop
	Wobble distinction error	Distinguished RW disc without wobble.		Read the RW control data.
22	Timeout of slider inner circumference	Inside switch could not ON within 3 seconds.		Stop
23	Timeout of slider outer circumference	Inside switch could not OFF within 2 seconds.		Stop

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
33	No FOK pulse during playback CLVA	When the focus was deviated continuously 20 times.		Adjusts focus at the innermost circumference and tries to return to its position where the error was generated (for 3 times), then opens. If the same error persists after one retry, the tray opens. (No FOK pulse)
38	Disc-type- sensing error	If normal starting was impossible in the following three or retried if other errors occure excepting C5 error. However was occured continuously 3 times, it is finished as "38 et al." (1) startup with the first disc-type-sensing result, (2) for designating the disc type, (3) forced startup with the original.	Open	
39	SGC converge timeout	SGC could not converge during detects the peak		Open
41	Spindle timeout	The unit did not enter Stop mode within 10 seconds of i	ssuance of a Stop command.	Stop
48	Spindle FG transition timeout	The spindle could not converge into within \pm 12% of the target FG rotation speed within 10 seconds after spindle kick. The first time after startup (the first time after disc distinction), it doesn't become the number of the target rotation within five seconds. The first time after startup, detects the abnormal rotation number of high-speed continuously 3 loops. DVD: 5 to 9 mS, CD: 40 to 60 mS		Stops. (FG timeout)
49	Spindle PLL transition timeout	within five seconds. Detects the abnormal high-speed or low-speed rotations. DVD: 5 to		Stops. ("73" is displayed during starting process.)
4A	Spindle lock timeout	Spindle could not lock more than 1.5 seconds before start the AFB.		Stops. ("73" is displayed during starting process.)
51	Auto sequence timeout of peak detection	ABUSY did not return within 1 second after the DDTCT (peak detection) command was sent.		Stop
52	Auto sequence timeout of focus jump down	ABUSY did not return within 30 mS after the FJMPD (Focus jump 1 to 0) command was sent.		Stop
53	Auto sequence timeout of focus jump up	ABUSY did not return within 30 mS after the FJMPU (Focus jump 0 to 1) command was sent.		Stop
54	Auto sequence timeout of play AGC	ABUSY did not return within 50 mS after the GSUMON (play-AGC-measuring) command was sent.		Stop
	Auto sequence timeout of disc-type- sensing	ABUSY did not return within 2 seconds after the DJSRT (disc-sensing) command was sent.		Stop
	Auto sequence timeout of ATB2	ABUSY did not return within 1 second after the TBLOFS (Internal ATB after the completion of external ATB) command was sent.		Stop
	Auto sequence timeout of tracking servo ON	ABUSY did not return within 500 mS after the TSON (tracking servo ON) command was sent.		Stop
56	timeout of ATB1	ABUSY did not return within 200 mS after the TBL (external ATB) command was sent.		Stop
59	adjustment	ABUSY did not return within 2 seconds after the FGN (focus gain adjustment) command was sent.		Stop
5A	gain adjustment	ABUSY did not return within 2 seconds after TGN (tracking gain adjustment) command was sent.		Stop
5B		ABUSY did not return within 1 second after the CMDAVE (offset adjustment) command was sent.		Stop

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
5C	Auto sequence timeout of modulation factor measurement	ABUSY did not return within 200 mS after the ADJMIR (modulation factor measurement) command was sent.		Stop
5D	Auto sequence timeout of auto focus bias	ABUSY did not return within 2 seconds after the AFB (auto focus bias) command was sent.		Stop
5F	Auto sequence already busy	A command could not be sent because ABUSY was low. ABUSY did not return within 200 mS after TLV command was sent.		Stop
62	Pause retry error	Pause mode could not be restored within three retries after it had been released.		Continues operation
71	ID can not read during tracing	An ID could not be read for 1 second or more.		Stop
72	Subcode check failure during playback		No frame could be read for 3 seconds or more.	Stop
73	ID can not read at the startup	An ID could not be read within 1 second after the AFB adjustment had been finished.		Opens (ID readout failure)
74	Subcode check failure during startup		No subcode could be read within 3 seconds after AFB adjustment had been finished.	Opens (Subcode readout failure).
81	Timeout for reading TOC of the mechanism controller		TOC readout took 30 seconds or more.	Stop
82	Timeout for reading TOC of the system controller		Reading TOC of the system controller took 30 seconds or more.	Stop
A1	Communication timeout of DSP command	A command could not be issued to DSP because Command Busy (XCBUSY) was in force (XCBUSY = L) for a specified time (about 200 mS).		Open
A2	Communication timeout for reading DSP coefficient	Command Busy (XCBUSY) was in force for a specified time (about 200 mS) before and after a coefficient read command was issued to DSP, or the address echo-back after command issuance did not match the setup address.		Open .
АЗ	Communication timeout for writing DSP coefficient	Command Busy (XCBUSY) was in force for a specified time (about 1024 mS) before and after the coefficient write command was issued to DSP.		Open
74		Command Busy (XCBUSY) was in force for 200 µS during continuous coefficient writing, or before and after a continuous write command was issued to DSP.		Open
B1	Timeout error for backup	In the tracing state during the backup sequence, codes could not be read for 1		Stops
	Retry error for backup	Tracing impossible after retring the tracking ON for 3 times in the backup sequence.		Stops
вз	Retry error for trace	During tracing, runaway was detected after three iterations of backup operations for detecting runaway.		Stops
	Detection of tracking overcurrent	During playback, the overcurrent detection port was at L for 300 ms or more continuously.		Stops (the mechanical controller operates independently).
(5)	corresponding error	While the power was on, the overcurrent detection port was at L for 40 ms or more continuously.		Turns off the power instantly (No indication on the FL display and no writing to flash memory)
	Violation against digital copy guard			Stops

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
F5	Tray being pushed	The tray switch that had been Open mode was forcibly changed to a mode other than Open by an external force.		Closes
F8	Loading timeout	5 seconds).		Reverses the loading direction. It timeout is repeated upon retry, the unit stops.
FC	Focus	The following error occured eight times. (1) Focus ON sequence could not be completed even if more than two seconds after the focus ON command (to the serve DSP) was sent		Stops wherever possible then opens (stops in the case of side B).

Error codes that are displayed on the FL display by using the remote control unit (Device error) To display : ESC + DISPLAY + DISPLAY ; Location of the display : At the two digits of left of the FL display

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
bit3=1 08 etc.	AV1 access error (read, write NG)			Ma annual
bit2=1 04 etc.	MY CHIP access error			No operation or it becomes debugging indication if the power is able to ON.
bit1=1 01 etc.	SRAM access error			

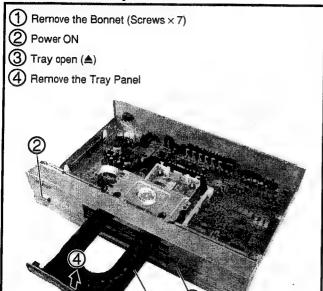
7.1.7 DISASSEMBLY

DIAGNOSIS OF PCBs

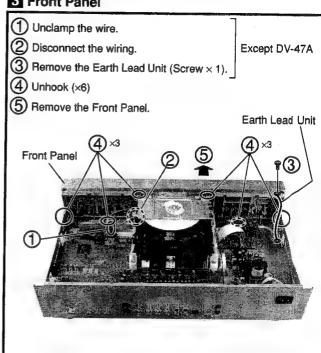
Note

When diagnosing the unit, be sure to use two connection cables for service. (Part No.: GGD1271)

Bonnet and Tray Panel



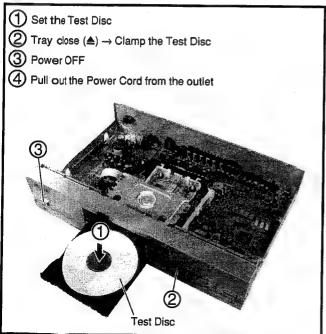
3 Front Panel



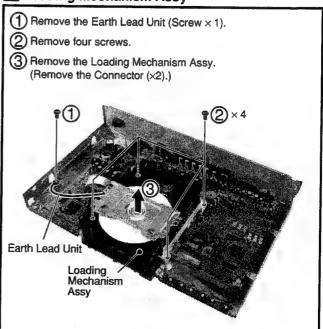


Door

2 Test Disc Set



4 Loading Mechanism Assy





FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
F5	Tray being pushed	The tray switch that had been Open mode was forcibly changed to a mode other than Open by an external force.		Closes
F8	Loading timeout	5 seconds).		Reverses the loading direction. It timeout is repeated upon retry, the unit stops.
FC	Focus	The following error occured eight times. (1) Focus ON sequence could not be completed even if more than two seconds after the focus ON command (to the serve DSP) was sent		Stops wherever possible then opens (stops in the case of side B).

Error codes that are displayed on the FL display by using the remote control unit (Device error) To display: ESC + DISPLAY + DISPLAY; Location of the display: At the two digits of left of the FL display

FL	Description of Error	Causes if with a DVD	Causes II with a CD	Operation of the Unit
bit3=1 08 etc.	AV1 access error (read, write NG)			No appropriate and the second state of the sec
bit2=1 04 etc.	MY CHIP access error			No operation or it becomes debugging indication if the power is able to ON.
bit1=1 01 etc.	SRAM access error			

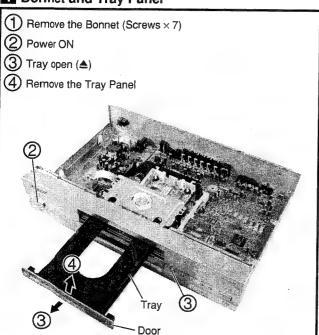
7.1.7 DISASSEMBLY

DIAGNOSIS OF PCBs

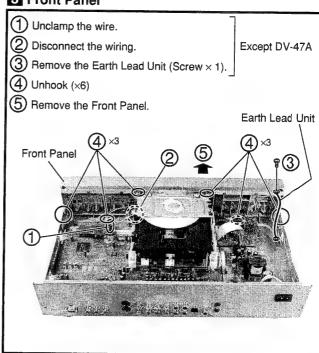
Note

When diagnosing the unit, be sure to use two connection cables for service. (Part No. : GGD1271)

1 Bonnet and Tray Panel

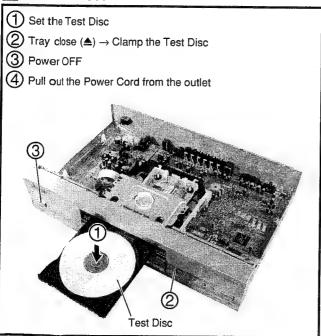


3 Front Panel

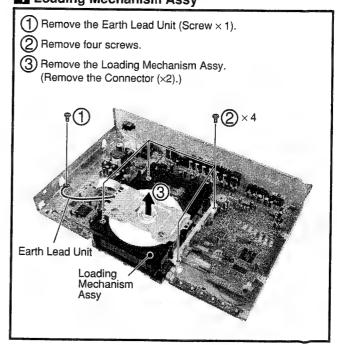




2 Test Disc Set



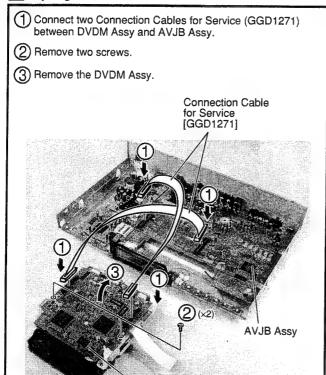
4 Loading Mechanism Assy







5 Styling of the Connection Cables

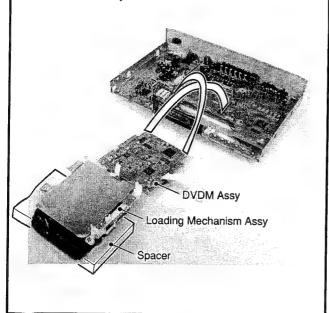




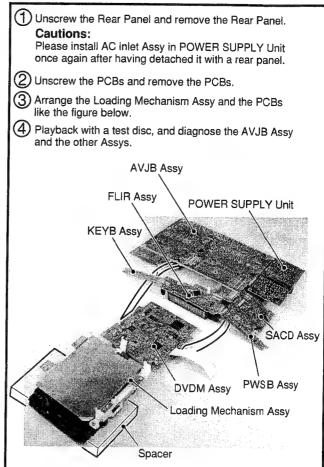
DVDM Assy

6 Diagnosis (1)

- Arrange the Loading Mechanism Assy and the DVDM Assy like the figure below.
- Put in spacers under the Loading Mechanism Assy not to rub the Clamper.
- Playback with a test disc, and diagnose the DVDM Assy and the other Assys.



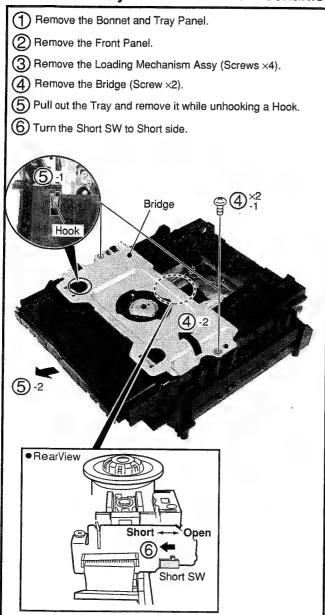
7 Diagnosis (2)

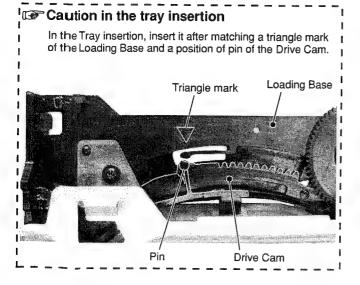


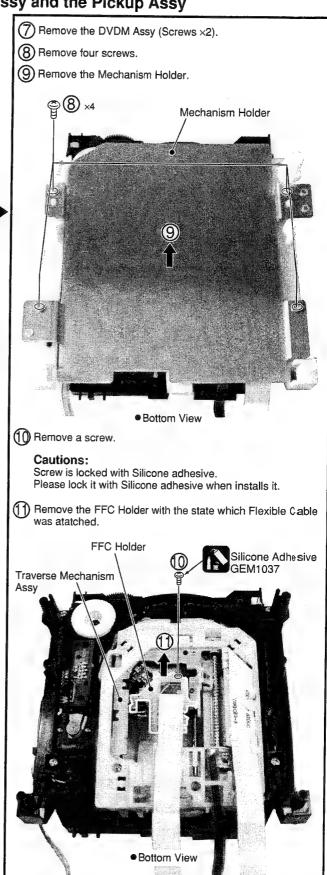
In a diagnosis (1) (2), You cannot play SACDs.

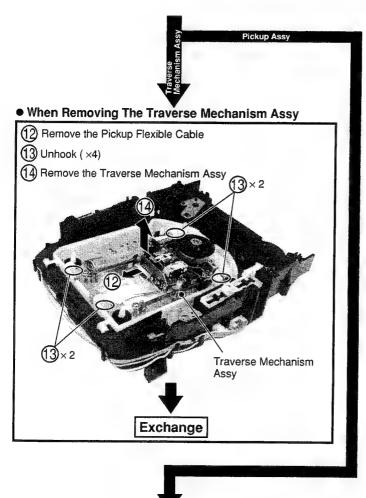


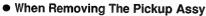
■ Disassembly of the Traverse Mechanism Assy and the Pickup Assy

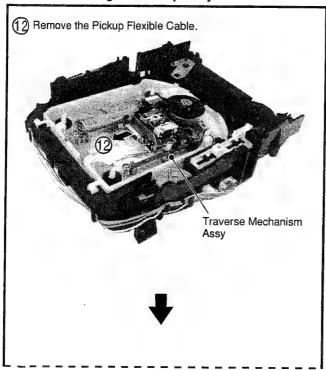




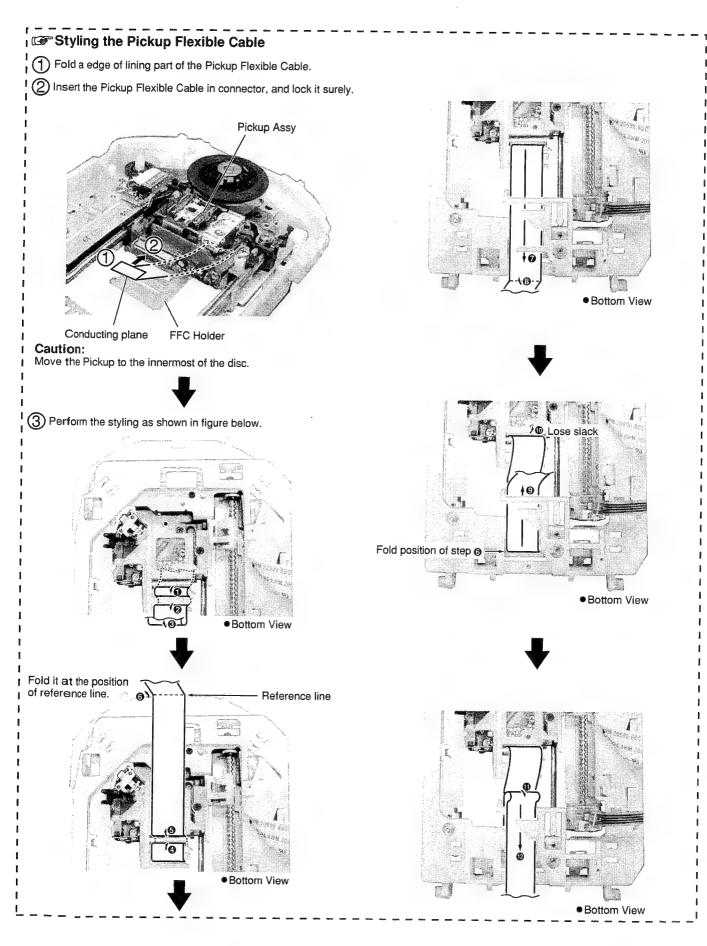












7.2 IC

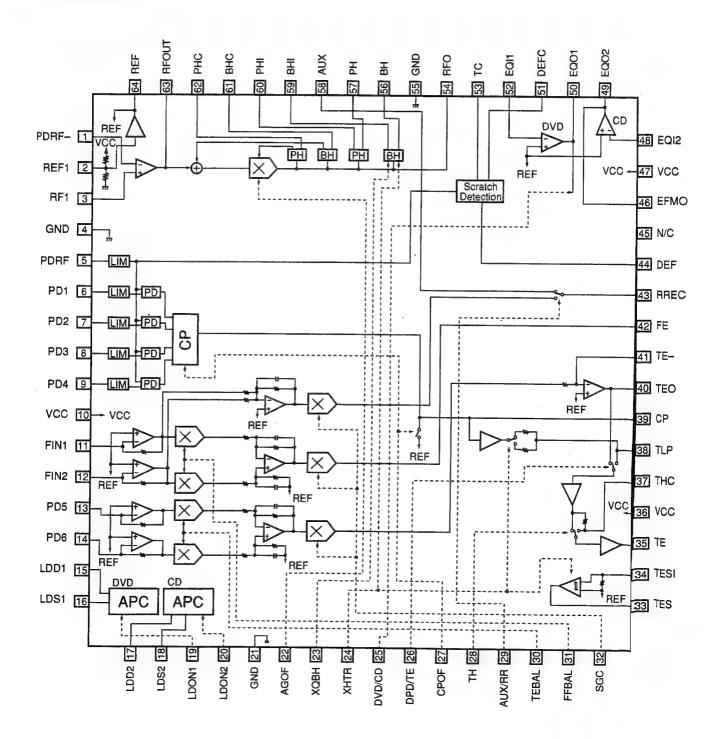
• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

List of IC

LA9701M, LC78652W, BA6664FM, PD6345A, M65774BFP, XCA5636PV150, ADV7300KST, PM0033A, PE5251A, CXD2753R

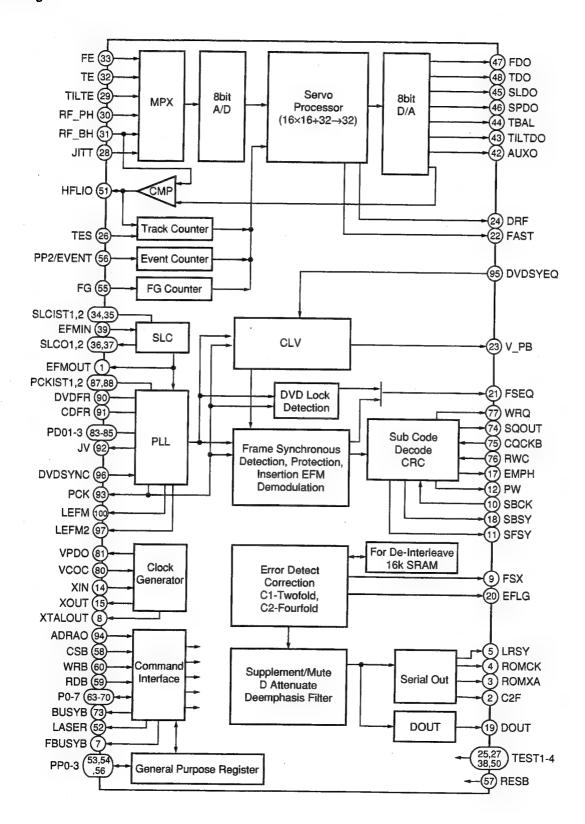
LA9701M (DVDM ASSY : IC101)

- RF IC
- Block Diagram



■ LC78652W (DVDM ASSY: IC201)

- Servo DSP IC
- Block Diagram



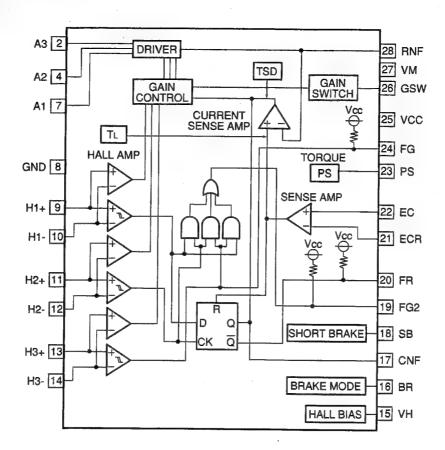
• Pin Function

No. Pin Name I/O Pin Function 1 EFMOUT O Output the state that was binary-stated value EFM 2 C2F O C2 flag output 3 ROMXA O CD-ROM data output 4 ROMCK O Shift clock output for CD-ROM data output 5 LRSY O L/R clock output for CD-ROM data output 6 PP3 I/O General-purpose port input/output / DVD sync. signal input 7 FBUSYB O Busy signal output of DSP process operation N ch-OD output	N ch-OD output
2 C2F O C2 flag output 3 ROMXA O CD-ROM data output 4 ROMCK O Shift clock output for CD-ROM data output 5 LRSY O L/R clock output for CD-ROM data output 6 PP3 I/O General-purpose port input/output / DVD sync. signal input 7 FBUSYB O Busy signal output of DSP process operation N ch-OD output	
3 ROMXA O CD-ROM data output 4 ROMCK O Shift clock output for CD-ROM data output 5 LRSY O L/R clock output for CD-ROM data output 6 PP3 I/O General-purpose port input/output / DVD sync. signal input 7 FBUSYB O Busy signal output of DSP process operation N ch-OD output	
4 ROMCK O Shift clock output for CD-ROM data output 5 LRSY O L/R clock output for CD-ROM data output 6 PP3 I/O General-purpose port input/output / DVD sync. signal input 7 FBUSYB O Busy signal output of DSP process operation N ch-OD output	
5 LRSY O L/R clock output for CD-ROM data output 6 PP3 I/O General-purpose port input/output / DVD sync. signal input 7 FBUSYB O Busy signal output of DSP process operation N ch-OD output	
6 PP3 I/O General-purpose port input/output / DVD sync. signal input 7 FBUSYB O Busy signal output of DSP process operation N ch-OD output	
7 FBUSYB O Busy signal output of DSP process operation N ch-OD output	
	III .
8 XTALOUT O External system clock output	Mt.
9 FSX O CD 1 frame sync. signal output	
10 SBCK I Subcode reading out clock input	
11 SFSY O Frame sync. signal output of subcode	
12 PW O Subcode P, Q, R, S, T, U, V and W output	
13 VSS - GND pin	
14 XIN Connect a crystal resonator (16.9344MHz)	
15 XOUT O Connect a crystal resonator	
16 DVDD1 - 3.3V power supply of the oscillation circuit	
17 EMPH O Monitor pin of the deemphasis	
18 SBSY O Sync. signal output of the subcode block	
19 DOUT O Audio EIAJ data output	
20 EFLG O Error correction state monitor of the error correction C1 and C2	
21 FSEQ O Detection monitor of the CD/DVD frame sync. signal	
22 FAST O Playback speed monitor N ch-OD output	
23 V_PB O Monitor output of the rough servo/CLV control	
24 DRF O In focus monitor	
25 TEST3 I Test input 3	
26 TES I Tracking error signal input	
27 TEST2 Test input 2	
28 JITT I Jitter quantity detecting signal input of EFM PLL	
29 TILTE I Tilt error signal input	
30 RF_PH I RF peak hold signal input	
31 RF_BH I RF bottom hold signal input	
32 TE I Tracking error signal input	
33 FE I Focus error signal input	
34 SLCIST1 - Current setting pin 1 of the constant current charge pump for SLC	С
35 SLCIST2 - Current setting pin 2 of the constant current charge pump for SLC	С
36 SLCO1 O Control output 1 for SLC	_
37 SLCO2 O Control output 2 for SLC	
38 TEST1 I Test input 1	
39 EFMIN I EFM/EFM + input	
40 AVDD - 5V power supply of A/D and D/A for servo	
41 AVSS - GND of A/D and D/A for servo	
42 AUXO O DA auxiliary output	
43 TILTDO O Tilt control signal output	
44 TBAL O Tracking balance control signal output	
45 SLDO O Sled control signal output	
46 SPDO O Spindle control signal output	
47 FDO O Focus control signal output	
48 TDO O Tracking control signal output	
49 VREF - Reference level of D/A for servo	
50 TEST4 I Test input 4	

No.	Pin Name	1/0	Pin Function
	HFLIO		Mirror detection signal input/output
	LASER	0	Output pin for laser ON/OFF control
	PP0/DVD_CDB	1/0	General-purpose port input/output / Disc discrimination signal output
<u></u>	PP1/CRCERRB	1/0	General-purpose port input/output / Subcode CRC result signal output
	FG	1	FG counter input
56	PP2/EVENT	1/0	General-purpose port input/output / Event counter input
	RESB	1	Reset input
58	CSB	i	Chip select input
59	RDB	<u> </u>	Internal state reading signal input
60	WRB	-	Command / data writing signal input
	DVDD2	-	5V power supply
62	VSS		GND
	P0		CIND
	P1		
	P2		
	P3		
	P4	1/0	Command / data input/output
68	P5		
	P6		
-	P7		
71	VSS	_	GND
	DVDD1		3.3V power supply for internal
	BUSYB		Busy signal output of command process
	SQOUT		Serial output of subcode Q
	CQCKB	+	Shift clock input for subcode Q data output
	RWC	-	Update permission input of subcode Q
	WRQ		Read out ready monitor of subcode Q
	AVSS	_	PLL GND for internal system clock
	VRPFR		VCO oscillation range setting of PLL for system clock
	VCOC	-	VOO oscillation range setting of PLL for system clock
	VPDO	-	Connect a PLL filter for system clock
	AVDD	_	DIA EV.
	PDO1		PLL 5V power supply for system clock
	PDO2		PLL filter connection pin 1 for EFM playback
	PDO3		PLL filter connection pin 2 for EFM playback
	AVSS		PLL GND for EEM playback
	PCKIST1	$\overline{}$	PLL GND for EFM playback
	PCKIST1		Current setting 1 of PLL constant current charge pump for EFM playback
	AVDD		Current setting 2 of PLL constant current charge pump for EFM playback
	DVDFR		PLL 5V power supply for EFM playback
	CDFR		VCO oscillation range setting of PLL for EFM playback 1
	JV		VCO oscillation range setting of PLL for EFM playback 2
	PCK	_	Jitter output of PLL clock for EFM playback
			Bit clock output for EFM playback
	ADRA0 DVDSYEQ		Address input
_			DVD synchronize pulse input
	DVDSYNC		DVD synchronous signal input
	LEFM2		Output the state that cut and out a signal which was binary-stated value EFM with PCK 2
	DVDD1		3.3V power supply for I/O
99			GND
100	LEFM	0	Output the state that cut and out a signal which was binary-stated value EFM with PCK 1

■ BA6664FM (DVDM ASSY : IC251)

- Three-phase Motor Driver
- Block Diagram



Block Diagram

No.	Pin Name	Pin Function	No.	Pin Name	Pin Function
1	N.C.	N.C.	16	BR	Brake mode switching pin
2	A3	Output pin	17	CNF	Capacitor connection pin for phase compensation
3	N.C.	N.C.	18	SB	Short brake pin
4	A2	Output pin	19	FG2	FG 3-phase mix signal output pin
5	N.C.	N.C.	20	FR	Rotation detecting pin
6	N.C.	N.C.	21	ECR	Control reference pin of output voltage
7	A1	Output pin	22	EC	Output voltage control pin
8	GND	GND pin	23	PS	Power save pin
9	H1+		24	FG	FG signal output pin
10	H1-		25	VCC	Power supply pin
11	H2+	Hall signal input pins	26	GSW	Gain switching pin
12	H2-	nan signar input pins	27	VM	Motor power pin
13	H3+		28	RNF	Resistor connection pin for output current detection
14	H3-		FIN	FIN	GND
15	VH	Hall bias pin			

■ PD6345A (DVDM ASSY : IC601)

• FR CPU

Pin Function

No.		Pin Name	1/0	Pin Function				
1	P20/D16	D0						
2	P21/D17	D1	1					
3	P22/D18	D2	1					
4	P23/D19	D3	1					
5	P24/D20	D4	1					
6	P25/D21	D5	1					
7	P26/D22	D6	1					
8	P27/D23	D7	1	Data has been dead of				
9	P30/D24	D8	10	Data bus input/output				
10	P31/D25	D9	1					
11	P32/D26	D10	1	·				
12	P33/D27	D11	1					
13	P34/D28	D12	1					
14	P35/D29	D13	1					
15	P36/D30	D14	1					
16	P37/D31	D15						
17	vss	GND	-	Ground				
18	P40/A00	A0						
19	P41/A01	A1						
20	P42/A02	A2	1					
21	P43/A03	A3						
22	P44/A04	A4	0	Address bus output				
23	P45/A05	A5						
24	P46/A06	A6						
25	P47/A07	A7						
26	VCC3	V+3.3D	_	Power supply				
27	VCC2	V+2.5D	_	Power supply				
28	P50/A08	A8						
29	P51/A09	A9						
30	P52/A10	A10						
31	P53/A11	A11						
32	P54/A12	A12	0	Address bus output				
33	P55/A13	A13						
34	P56/A14	A14						
	P57/A15	A15						
36	VSS	GND	_	Ground				
	P60/A16	A16						
	P61/A17	A17						
	P62/A18	A18	0	Address bus output				
	P63/A19	A19	·					
	P64/A20	A20						
	P65/A21	TOFSTA	0	Tracking offset injection -A for servo				
	P66/A22	TOFSTC		Tracking offset injection -C for servo				
	P67/A23	WBL		For Wobble detection corresponding to DVD R/W (main)				
	DAVS	GND		Ground				
	DAVC	V+3.3D		Power supply				
	DAO	STEP1	\neg					
	DA1	STEP2	$\dot{\dashv}$	For stepping motor control				
-	DA2	LODRV		Loading, door and select motor drive				
				g, and output tillotte				

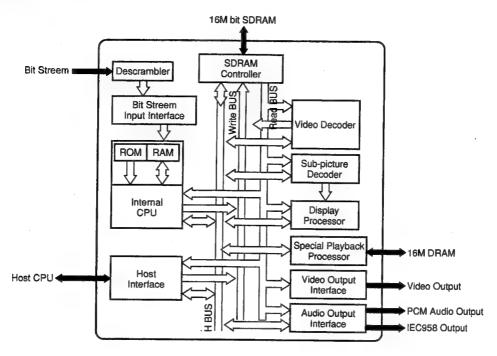
No.	Mark	Pin Name	I/O	Pin Function				
50	AN0	STEP2	1	For stepper control 2 For offset cancel of D/A output				
51	AN1	STEP1	1	For stepper control 1 For offset cancel of D/A output				
52	AN2	NAP SW	1	Rear panel H/M/L≃M/A/P				
53	AN3	XOEM	1	OEM model protection input				
54	AN4	LD CUR	1	Input for LD current value indication				
55	AN5	SELPOS	1	Tray selector input of microchanger				
56	AN6	CLAMPSW	+	Clamp position SW input				
57	AN7	LODPOS	\vdash	Loading clamp position SW input				
58	AVCC	V+3.3D	+-	Power supply				
59	AVRH	V+3.3D	 _	Power supply				
60	AVSS/AVRI	GND	 _	Ground				
61	vss	GND	 _	Ground				
62	PP0/ATGX	SLDPOS		SW input of slider inside position				
63	PP1/FRCK	GSW	0	Gain up at ACBR (at ACBR: H, others: L)				
	PP2/IN0	780ON	1	ON/OFF control signal of 780nm laser diode				
	PP3/IN1	SEDO	0	Tray rotation drive output				
_	PP4/IN2	XMON	0	Mute of DRV (spindle motor ON: H)				
	PP5/IN3	XDRVMUT	0	FTS driver mute output				
	PP6	LT1	0	Communication response to the FL controller				
	PP7	XRDY	1	Communication response to the FL controller				
	VCC3	V+3.3D	 	Power supply				
71	VCC2	V+2.5D	-	Power supply				
	PO0/OC0	XCURDET	-					
	PO1/OC1	XCBUSY	<u> </u>	Actuator current detection input Servo OFF for "L" 300ms				
	PO2/OC2	XDSPRST	0	Busy signal of command process Command acceptable : "L" Servo DSP reset				
	PO3/OC3	BCA						
	PO4/OC4	DSCSNS/ XCD4X	1/0	BCA read signal (at BCA read: H) (Not used) Disc detection pulse "L": Disc exist				
77	PO5/OC5	PPCNT	0	Correspond to fourth speed CD playback ("L": Fourth speed) Switch of TZC in WBL traversal (at PP: H)				
	PO6/OC6	XDFINH						
	PO7/OC7	DPD/TE	0	Defect signal control (DEFECT ON: Hi-Z; OFF: "L") H=1 beam, L=3 beams				
	VSS	GND		Ground				
	PN0/AIN0	DVD/XCD	_					
	PN1/BIN0	AGOFF		RF EQ switching signal at DVD/CD "H": DVD, "L": CD "H": Turn off AGC of RFIC				
	PN2/AIN1							
		650X780		780nm/650nm switching signal				
	PN3/BIN1 PN4/AIN2	LD ON		ON/OFF control signal of laser diode				
	PN5/BIN2	FOFST2 FOFST1		Focus offset adjustment 1 (Tri-value control "H", "L", Hi-Z)				
				Focus offset adjustment 2 (Tri-value control "H", "L", Hi-Z)				
	PN6/AIN3	XCD2X		For VCD double speed playback				
	PN7/BIN3	OEICG		"H": Gain of OEIC up to 6dB				
	PM0/ZIN0	TRYPOS		Count input of disc number				
	PM1/ZIN1	N/XP SW		Video encoder control port (NTSC/PAL)				
	PM2/ZIN2	V SEL	_	(Composite, S) / (YCbCr) or (RGB) switch				
	PM3/ZIN3	V SEL2	0	(Composite) of skirt terminal / (S) switch				
		SDAI						
		SDAO		12C control lines				
		SCLI						
		SCLO						
97		CTS	_	RS-232C clear to send input				
98		DTR	0 1	RS-232C clear to send output				
	PL6/UC0	-	- -					
100	VSS	GND	- 10	Ground				

No.	Mark	Pin Name	1/0	Pin Function
101	PK0/TIN0	XVQERST	0	VQE3 reset signal
102	PK1/TIN1	XCSPRO1	-	Serial communication enable of the progressive converter IC
103	PK2/TIN2	XCSVQE5	-	Serial communication enable of VQE5 IC
104	PK3/TIN3	N.C.	1-	N.C.
105	PK4/TOT0	44X48	0	DAC and DASP supply clock fs 44/48 selection
106	PK5/TOT1	DI ERR	1	DIR reception error (unlock signal) input
107	PK6/TOT2	XMICON2	1	Mic center MIX signal for multi CH
107	PK6/1012	AOSEL1	0	AV-1/audio DSP switch (front L/R data)
	PK7/TOT3	AOSEL0	-	AV1 output AOD and AO0 switch
109	VCC3	V+3.3D	-	Power supply
110	VCC2	V+2.5D	-	Power supply
111	PJO/INTO	XINT0	1	
112	PJ1/INT1	XINT1	1	
113	PJ2/INT2	XIRQ10	1	MY chip interrupt #0
114	PJ3/INT3	XIRQ11	T	MY chip interrupt #1
115	PJ4/INT4	XABUSY	T	Busy signal of DSP process operation "L"
116	PJ5/INT5	THLD	T	Playback speed monitoring signal
117	PJ6/INT6	SBSY	T	Sync. signal of subcode block (period SO+SI "H")
118	PJ7/INT7	N.C.	1	N.C.
119	PI0/SI0	SSI	T	Serial bus data input
120	PI1/S00	SSO	0	Serial bus data output
121	PI2/SCK0	SSCK	1	Serial bus clock input
122	PI3/SI1	RXD	ı	RS-232C RXD .
123	PI4/S01	TXD	0	RS-232C TXD
124	PI5/SCK1	SELMOD	_	Audio DSP mode switch
125	PHO/SI2	RESET2	_	Reset for DSP 2
126	PH1/SO2	XCSADSP1	0	CS for DSP 2
127	PH2/SCK2	XCSSPD	_	Latch signal of serial/parallel IC for generating audio DSP control signal
128	MDO	GND	-	
129	MD1	GND	_	Ground
130	MD2	GND	_	
131	VSS	GND	-	Ground
132	VCC2	V+2.5D	_	Power supply
133	VSS	GND	-	Ground
134	X1	EXTAL	0	
135	XO	XTAL		
136	VCC3	V+3.3D	_	Power supply
137	PCO/DREQ2	LFEON	0	Select Mix to front L/R of LFE element
-		RESET1 XMICON1		DSP 1 reset
138	PC1/DACK2	AV1/XSDSP		Mic front L/R MIX signal for 2 ch AV-1/servo DSP switch
139	PC2/DEOP2	6CHMD		DAC output 2 ch/6 ch switch (←XDVRST2)
140	PBO/DREQ0	XDREQ0		DMA response output to BY Chip
141	PB1/DACK0	DACK0		DMA request input from BY Chip
142	PB2/DEOP0	N.C.		N.C.
143	PB3/DREQ1	XDREQ1	ı	DMA response output to AV-1 Chip
144	PB4/DACK1	XDACK1		DMA request input from AV-1 Chip
-	PB5/DEOP1	XEXCKON	_	ON/OFF switch of DSP external clock
	PB6/IOWRX	DOISEL1	I	Digital output switch 1 of audio DSP (AV-1. DSP and GND)
	PB7/IORDX	DOISEL2		Digital output switch 2 of audio DSP (AV-1. DSP and GND)
148		GND	$\overline{}$	Ground
	PA0/CSOX	XCS20		Chip select output to Flash ROM
	PA1/CS1X	XCS6		AV-1 Chip select
			- 1	

No.	Mark	Pin Name	I/O	Pin Function
151	PA2/CS2X	XCS3	0	Chip select of PD4995A (MY Chip)
152	PA3/CS3X	XCS4	0	Chip select of servo DSP
153	PA4/CS4X	XCS23	0	Chip select output to SRAM (1M)
154	PA5/CS5X	N.C.	0	N.C.
155	PA6/CS6X	N.C.	0	N.C.
156	PA7/CS7X	N.C.	0	N.C.
157	VCC3	V+3.3D	-	Power supply
158	VCC2	V+2.5D	-	Power supply
159	NMIX	_	-	V+3.3D fixed
160	HSTX	_	-	V+2.5D fixed
161	INITX	XINIT	1	
162	P80/RDY	RDY		
163	P81/BGRNTX	XAMUTE	П	Final stage mute of 2 ch audio output
164	P82/BRQ	XMMUTE	0	Audio multi channel mute
165	P83/RDX	XRD	0	
166	P84/WR0X	XWR0	0	
167	P85/WR1X	XWR1	0	
168	VSS	GND	-	Ground
169	P90/SYSCLK	SYSCLK	0	
170	P91	DFRST	-	DAC reset (for front L/R)
171	P92/MCLK	DFRST1	-	DAC reset (for center, surround and LFE)
172	P93	XCSDF0	0	DAC chip select (←XLAT3)
173	P94/LBAX	XCSDF1	0	DAC chip select for center, surround and LFE
174	P95/BAAX	XAQRST	0	AQE reset
175	P96	XCSAQE	0	AQE chip select
176	P97/WEX	TM ENT	ı	Test mode entry

■ M65774BFP (DVDM ASSY : IC801)

- MPEG2 Decoder IC
- Block Diagram



• Pin Function

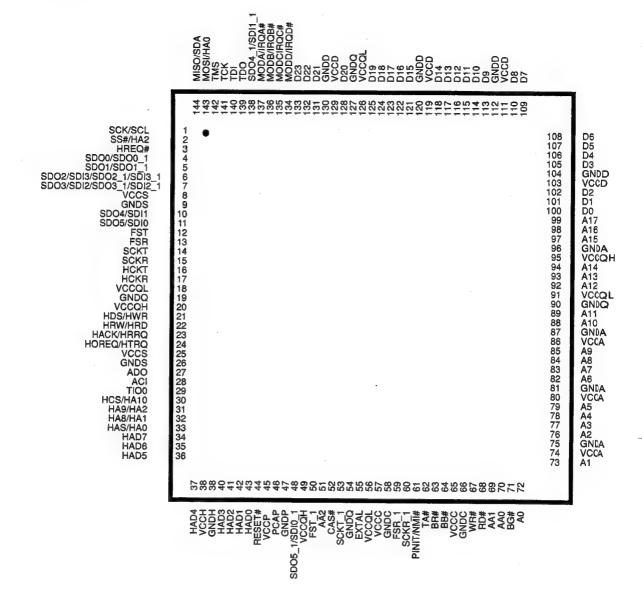
No.	Pin Name	1/0	Pin Function	No.	Pin Name	1/0	Pin Function			
1	GND	1	Ground	21	5VDD	ı	5V power supply			
2	HDO			22	HD15	1/0	Data input and output port			
3	HD1			23	CS	1	Chip select signal input			
4	HD2	1/0	Data input and output port	24	RE	ı	Read Enable signal input			
5	HD3			25	WE	1	Write Enable signal input			
6	HD4			26	BHE	1	Byte High Enable signal input			
7	5VDD	. 1	5V power supply	27	RDY	0	Acknowledge signal which is indicated the finish of data reading or writing via the host bus			
8	DDD	ı	Power supply	28	INTR	0	Interrupt request signal against to the external CPU from M65773FP			
9	HD5		Data input and output port	29	GND	I	Ground			
10	HD6			30	HA0		Address input port			
11	HD7	1/0		31	HA1					
12	HD8			32	HA2	- 1				
13	HD9						33	HA3		
14	GND	1	Ground	34	HA4					
15	HD10			35	VDD	Τ	Power supply			
16	HD11			36	5VDD	ı	5V power supply			
17	HD12	1/0	Data input and output port	37	HA5					
18	HD13			38	HA6	,				
19	HD14			39	HA7	'	Address input port			
20	VDD	١,	Power supply	40	HA8					

No.	Pin Name	1/0	Pin Function	No	Pin Name	1/0	Pin Function		
41	HA9	i	Address input port	83	VDD	1	Power supply		
42	GND	1	Ground	84	VSYNC	0	Vertiacl sync. signal output		
43	CDMCK	ı	Connect to ground	85	HSYNC	0	Horizontal sync. signal output		
44	CDLRCK	T	L/R clock clock input from CDDSP	86	PICSTRT				
45	CDBCK	I	PCM bit clock input from CDDSP	87	MBSTRT				
46	CDDATA	1	Digital audio interface input	88	MBDATA				
47	VDD	I	Power supply	89	GND	T	Ground		
48	CDDIN	1	PCM audio data input from CDDSP	90	PWD	0	Phase comparator output for external sync. operation		
49	INT2	0	Interrupt request signal against to the	91	CSYNC	I	Composite SYNC signal input		
50	INT3		external CPU from M65773FP	92	OSDKEY	0	OSD key flag output		
51	DREQ	0	DMA request signal for OSD bitmap transfer	93	PXCLK	0	Pixel clock (27MHz free-running clock)		
52	DACK	ı	DMA acknowledge signal for OSD bitmap transfer	94	VDD	I	Power supply		
53	GND	1	Ground	95	PD7				
54	CLKO	0	27MHz clock output	96	PD6	0	Digital pixel data		
55	CLKIN	1	System clock input	97	PD5		Digital pixel data		
56	AVDD1	1	Analog power supply	98	PD4				
57	AGND1	1	Analog ground	99	GND	1	Ground		
58	AGND3			100	PD3				
59	AVDD3	1_	Analog power supply	101	PD2	0	Digital pixel data		
60	CCAP	1	Connect to ground	102	PD1	١			
61	AGND2	1	Analog ground	103	PD0				
62	AVDD2	1	Analog power supply	104	VDD	_	Power supply		
63	ACLKO	_	Open	105	GND	1	Ground		
	ACLKI		Audio clock input	106	RESET	1	Hardware reset input		
	HMODE1	1	Setting pin of host interface operating mode	107	TEST0				
66	GND	1	Ground	108	TEST1		Connect to ground normally		
	VDD	1	Power supply	109	TEST2				
	AOD			110	VDD	1	Power supply		
	AO2	0	PCM output of audio data	111	NMD0				
	AO1						NMD15	1/0	Data transfer line with DRAM
	AO0			113	NMD1	"	Data transfer line with DRAM		
	GND		Ground	114	NMD14				
	DOUT1	0	Digital audio interface output	115	GND	1	Ground		
	DOUT0				NMD2				
	SDA	-	Open	117	NMD13	1/0	Data transfer line with DRAM		
	SCL		Open	118	NMD3	"	Data transfer lifte with DHAM		
	VDD	\rightarrow	Power supply		NMD12				
	GND		Ground	120	VDD	1 1	Power supply		
	DACCLK	\rightarrow	Over-sampling operating clock output		NMD4				
80	DOCLK		PCM bit clock output	122	NMD11				
	LRCLK		Clock output for discriminating the channel (L/R) of PCM audio data		NMD5	1/0	Data transfer line with DRAM		
82	HMODE0	1	Setting pin of host interface operating mode	124	NMD10				

No.	Pin Name	1/0	Pin Function	No.	Pin Name	1/0	Pin Function
125	GND	I	Ground	167	MA5	0	Address line with SDRAM
126	NMD6		·	168	GND	T	Ground
127	NMD9		Data transfer line with DRAM	169	MA1		
128	NMD7	1/0		170	MA6		
129	NMD8			171	MAO	0	Address line with SDRAM
130	VDD	ı	Power supply	172	MA7	1	
131	NCAS0	0	CAS (Column Address Strobe) control line of DRAM	173	VDD	1	Power supply
132	NWE	0	WE control line of DRAM	174	MA10		
133	NCAS1	0	CAS (Column Address Strobe) control line of DRAM	175	MA8		Address line with CDDAA
	NRAS	0	RAS (Row Address Strobe) control line of DRAM	176	MA11	0	Address line with SDRAM
135	GND	١	Ground	177	MA9		
136	NMA9	0	Address line with DRAM	178	GND	ı	Ground
137	NMA8		Address into with bit Ally	179	DCS	0	Chip select of SDRAM
138	VDD	l	Power supply	180	RAS	0	RAS (Row Address Strobe) control line of SDRAM
	NMA0			181	CAS	0	CAS (Column Address Strobe) control line of SDRAM
	NMA7	0	Address line with DRAM	182	VDD		Power supply
	NMA1			183	MCLK	0	Operation clock of SDRAM
	NMA6			184	GND	- 1	Ground
143	GND	1	Ground	185	DWE	0	WE control line of SDRAM
144	NMA2		Address line with DRAM	186	DQMU	0	DQM control line of SDRAM Use for mask of upper byte output.
	NMA5	0		187	DQML	0	DQM control line of SDRAM Use for mask of lower byte output.
	NMA3			188	VDD	I	Power supply
	NMA4			189	MD7		
	VDD		Power supply	190	MD8	1/0	Data transfer line with SDRAM
	BD7		Bit stream input port	191	MD6	"0	Data transfer line with SDIAM
	BD6			192	MD9		
	GND	1	Ground	193	GND	1	Ground
	BD5			194	MD5		
153			Bit stream input port	195	MD10	1/0	Deta transfer line with CDD 111
	BD3	.	and an own in more part	196	MD4	,,O	Data transfer line with SDRAM
	BD2			197	MD11	,	
156	VDD	1	Power supply	198	VDD	1	Power supply
157	GND	I	Ground	199	MD3		
158	BD1		Dit etroom input port	200	MD12		
159	BD0	'	Bit stream input port	201	MD2	1/0	Data transfer line with SDRAM
160	BCLK	1	Strobe signal (clock) of BD port	202	MD13		
161	BDEN		Indicates the effective or invalid data which is sampled from BD port	203	GND	1	Ground
	BDREQ	0 0	Output permission signal against to the device (channel decoder) which connecting to BD port	204	MD1		
163	VDD	I	Power supply	205	MD14	1/0	Data transfer line with SDRAM
164	VA3			206	MD0		
		1				- 1	
165	VIA4	0 /	Address line with SDRAM	207	MD15		

■ XCA56367PV150 (DVDM ASSY : IC901)

- DVD-Audio decoder
- Pin Arrangement



• Pin Function

No.	Pin Name	I/O	Function
1	SCK	T	A clock for host serial communication
2	SS	I	for serial communication
3	HREQ#	0	SHI transfer permission information
4	SD00	0	ESAI Lf/Rf, L/R 2ch data output
5	SD01	0	ESAI Ls/Rs, (surround system data) output
6	SDO2	0	ESAI center /Lfe output
7	SD03	0	N.C.
8	VCCS	-	ESSI, SCI, Timer Power
9	GNDS	_	ESSI, SCI, Timer GND
10	SDI1	ı	N.C.
11	SDO5	0	down mixture output
12	FST	1/0	LRCK input/output
- 13	FSR	0	N.C.
14	SCKT	1/0	BCK input/output
15	SCKR	-	N.C.
16	HCKT	ı	HCK input
17	HCKR	0	N.C.
18	VCCQL	_	Quiet Core Power 1.8V
19	GNDQ	-	Quiet GND
20	VCCQH	_	Quiet External Power
21	HDS	1	Data strike rope from MyChip
22	HRW	1	Port which selects a data transfer course between Digital Signal Processor as MyChip
23	HACK	0	GPIO output (for error notice to a microcomputer)
24	HOREQ	0	GPIO output (a request to SCRUT)
25	VCCS	_	ESSI, SCI, Timer Power
26	GNDS	-	ESSI, SCI, Timer GND
27	ADO	0	DAX data output
28	ACI	T	A clock for DAX
29	TIO0	0	SHI transfer permission information
30	HCS	0	GPIO output (decode buffer full information) GPIO output (Digital Signal Processor active state information)
31	HA2	ı	Host Address Input 2
32	HA1	1	Host Address Input 1
33	HAO	ı	Host Address Input 0
34	HAD7		
35	HAD6	1	Address/Data Bus
36	HAD5		

No.	Pin Name	I/O	Function
37	HAD4	1	Address/Data Bus
38	VCCH	-	Host Power
39	GNDH	-	Host GND
40	HAD3		
41	HAD2	1.	Address/Data Burn
42	HAD1		Address/Data Bus
43	HAD0	1	
44	RESET	1	RESET
45	VCCP	-	PLL POWER
46	PCAP	1	Capacitor connection for PLL loop filter
47	GNDP	_	PLL GND
48	SDI0_1	1	Ls/Rs input
49	VCCQH	-	Quiet External Power
50	FST_1	1	LRCK
51	AA2	0	Chip select for memory
52	CAS	0	N.C.
53	SCKT_1	1	BCK
54	GNDQ	-	Quiet GND
55	EXTAL	1	27MHz clock
56	VCCQL	-	Quiet Core Power
57	VCCC	-	Bus Control Power
58	GNDC	-	Bus Control GND
59	FSR_1		N.C.
60	SCKR_1	-	N.C.
61	PINT	ı	PLL Intial
62	TA	- 1	
63	BR	0	N.C.
64	ВВ	ı	
65	VCCC	-	Bus Control Power
66	GNDC	-	Bus Control GND
67	WR	0	Wright signal for memory
68	RD	0	Read signal for memory
69	AA1	0	
70	AA0	0	N.C.
71	BG	Τ	
72	A0	0	Address Bus

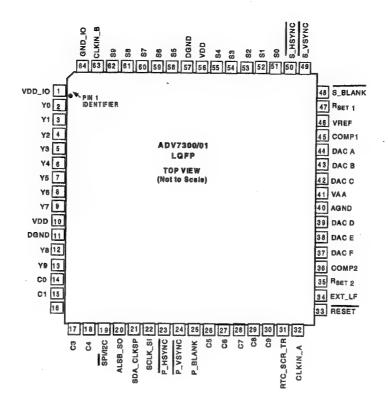
74 V 75 G 76 A 77 A 78 A 79 A 80 V 81 G 82 A	A1 VCCA GNDA A2 A3 A4 A5 VCCA GNDA A6 A7 A8	-	Address Bus Address Bus Power Address Bus GND Address Bus Power Address Bus Power Address Bus Power Address Bus GND	
75 G 76 A 77 A 78 A 79 A 80 V 81 G 82 A 83 A	GNDA A2 A3 A4 A5 //CCA GNDA A6 A7 A8	0	Address Bus GND Address Bus Address Bus Power Address Bus GND	
76 A 77 A 78 A 79 A 80 V 81 G 82 A 83 A	A2 A3 A4 A5 /CCA GNDA A6 A7 A8	0	Address Bus Address Bus Power Address Bus GND	
77 A 78 A 79 A 80 V 81 G 82 A 83 A	A3 A4 A5 VCCA GNDA A6 A7 A8	-	Address Bus Power Address Bus GND	
78 A 79 A 80 V 81 G 82 A 83 A	A4 A5 /CCA GNDA A6 A7 A8	-	Address Bus Power Address Bus GND	
79 A 80 V 81 G 82 A 83 A	A5 VCCA GNDA A6 A7 A8	-	Address Bus Power Address Bus GND	
80 V 81 G 82 A 83 A	/CCA GNDA A6 A7 A8	-	Address Bus GND	
81 G 82 A 83 A	GNDA 46 47 48	-	Address Bus GND	
82 A 83 A	46 47 48 49			
83 A	A7 A8 A9	0	Address Bus	
	/8	0	Address Bus	
84 A	19		Address Bus	
1 07 A				
85 A				
86 V	CCA	-	Address Bus Power	
87 G	ANDA	_	Address Bus GND	
88 A	10		Address Due	
89 A	11	0	Address Bus	
90 G	NDQ	-	Quiet GND	
91 V	CCQL	-	Quiet Core Power 1.8V	
92 A	12			
93 A	13	0	Address Bus	
94 A	14			
95 V	CCQH	-	Quiet External Power	
96 GI	INDA	-	Address Bus GND	
97 A1	15			
98 A1	16	0	Address Bus	
99 A1	17			
100 D	0			
101 D1	1	1/0	Data Bus	
102 D2	2			
103 VC	CCD	-	Data Bus Power	
104 GI	NDD	-	Data Bus GND	
105 D3	3			
106 D4	4		Day D	
107 D5	5	1/0	Data Bus	
108 De	6			

No.	Pin Name	1/0	Function		
109	D7	110	Dete Bue		
110	D8	1/0	Data Bus		
111	VCCD	-	Data Bus Power		
112	GNDD	-	Data Bus GND		
113	D9				
114	D10	1			
115	D11	1/0	Data Bus		
116	D12	1 "	Data bus		
117	D13	1			
118	D14	1			
119	VCCD	-	Data Bus Power		
120	GNDD	-	Data Bus GND		
121	D15				
122	D16				
123	D17	1/0	Data Bus		
124	D18				
125	D19	1			
	VCCQL	-	Quiet Core Power 1.8V		
	GNDQ	-	Quiet GND		
	D20	1/0	Data Bus		
	VCCD	- 1	Data Bus Power		
	GNDD	-	Data Bus GND		
	D21				
	D22	1/0	Data Bus		
133			•		
	MODD				
	MODC		Mode of operation choice		
	MODB	١.	woods or operation choice		
	MODA				
	SDI1_1		C/Lfe input		
	TDO	0	JTAG Test Data Output		
140			JTAG Test Data Input		
	TCK		JTAG Test Clock		
142		ı	JTAG Test Mode Select		
	MOSI	1	SH serial data input		
1 44	MOSO	0	SH serial data output		

ADV7300KST (AVJB ASSY : IC601)

Video Encoder IC

Pin Arrangement



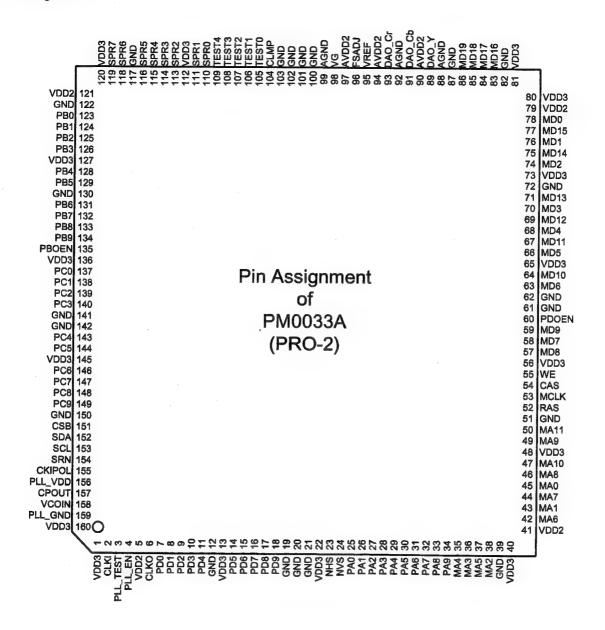
Pin Function

Pin Mnemo	nicInput/Output	Function
DGND	G	Digital Ground
AGND	G	Analog Ground
GND_IO	G	Digital Ground
CLKIN_B	I	P xel Clock Input. Requires a 27MHz reference clock for Progressive Scan Mode or a 74.25MHz (74.1758MHz) reference clock in HDTV mode. This clock input pin is only used in simultaneous SD and HD mode.
CLKIN_A	I	P xel Clock Input for HD only or SD only modes.
COMP	0	Compensation Pin for DACs. Connect 0.1µF Capacitor from COMP pin to VAA.
DAC A	0	CVBS/ GREEN/ Y SD analog output.
DAC B	0	Luma/ BLUE/ U SD analog output.
DAC C	О	Chroma/ RED/ V SD analog output.
DAC D	0	in SD only mode: CVBS/GREEN/ Y analog output in HD only mode and simultaneous HD/SD: Y/ GREEN (HD) analog output.
DAC E	0	in SD only mode: Luma/BLUE/ U analog output in HD only mode and simultaneous HD/SD: Pr/ RED (HD) analog output.

Pin Mnemon	nicInput/Output	Function			
DAC F	0	in SD only mode: Chroma/RED/ V analog output in HD only mode and simultaneous HD/SD: Pb/ BLUE (HD) analog output.			
P_BLANK	I	Video Blanking Control Signal for HD sync in simultaneous SD/HD mode and HD			
P_HSYNC	I	HD only mode. Video Horizontal Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.			
P_VSYNC	I	Video Vertical Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.			
S_BLANK	I/O	Video Blanking Control Signal for SD.			
<u>S_HSYNC</u>	I/O	Video Horizontal Control Signal for SD. Option to o/p SD HSYNC or HD HSYNC in SD Slave Mode 0 and/or any HD mode.			
<u>s_vsync</u>	I/O	Video Blanking Control Signal for SD. Option to o/p SD VSYNC or SD HSYNC in SD Slave Mode 0 and/or any HD mode.			
C9-0	I	10-Bit Progressive scan/ HDTV input port for CrCb color data in 4:2:2 input mode. In 4:4:4 input mode this input port is used for the Cb [Blue/U] data. The LSBs are set up on pins C0, C1. In default mode the input on this port is output on DAC E.			
Y9-0	1	10-Bit Progressive scan/ HDTV input port for Y data. The LSBs are set up on pins Y0, Y1. In default mode the input on this port is output on DAC D.			
\$9-\$0	I	10-Bit Standard Definition input port. Or Progressive Scan/ HDTV input port for Cr [Red/V] color data in 4:4:4 input mode. The LSBs are set up on pins S0, S1. In default mode the input on this port is output on DAC F.			
RESET	I	This input resets the on-chip timing generator and sets the ADV7300/01 into Default Register setting. Reset is an active low signal.			
R _{SETI,2}	I .	A 1520 Ohms resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.			
SCL_SI	I	Multifunctional input: MPU Port Serial Interface Clock Input or SPI input.			
SDA_CLKSP	I/O	Multifunctional pin: MPU Port Serial Data Input/Output or SPI clock input.			
ALSB_SO	I/O	Multifunctional pin. TTL Address Input. This signal sets up the LSB of the MPU address When this pin is tied low the I2C filter is activated which reduces noise on the I2C interface. When this pin is tied high, the input bandwidth on the I2C lines is increased.			
SPĪ/I2C	I	SPI output. When this nput pin is brought low, the ADV7300/01 interfaces over the SPI port and uses this input as part of the 4 wire SPI nterface. When this input pin is tied high [Vdd_IO], the ADV7300/01 interfaces over the I2C port.			
V _{DD_IO}	P	Digital power supply			
V _{DD}	P	Digital power supply			
VAA	P	Analog power supply			
$V_{ m REF}$	I/O	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235V).			
EXT_LF	I	External Loop filter for the internal PLL.			
RTC_SCR_TR	I	Multifunctional Input: Real Time Control (RTC) nput, Timing Reset nput, Subcarrier Reset nput.			

■ PM0033A (AVJB ASSY : IC901)

- Progressive Scan Converter (PRO2)
- Pin Arrangement



• Pin Function

Pin No.	Name	I/O/ P	Attribute	Functional Description
1	VDD3	Р	•	VDD for IO (3.3V)
2	CLKI	In	LVTTL	27MHz System clock input terminal
3	PLL_TEST	In	LVTTL	Test exclusive use input terminal
4	PLL_EN	In	LVTTL	PLL enable input terminal
5	VDD2	Р	-	VDD for Core (2.5V)
6	CLKO	Out	2mA	27MHz Clock output terminal
7	PD0	Inout	LVTTL, leakage, 2mA	Image data I/O port D(LSB)
8	PD1	Inout	LVTTL, leakage, 2mA	Image data I/O port D
9	PD2	Inout	LVTTL, leakage, 2mA	Image data I/O port D
10	PD3	Inout	LVTTL, leakage, 2mA	Image data I/O port D
11	PD4	Inout	LVTTL, leakage, 2mA	Image data I/O port D
12	GND	Р	•	Digital Ground
13	VDD3	Р	-	VDD for IO (3.3V)
14	PD5	Inout	LVTTL, leakage, 2mA	Image data I/O port D
15	PD6	Inout	LVTTL, leakage, 2mA	Image data I/O port D
16	PD7	Inout	LVTTL, leakage, 2mA	Image data I/O port D
17	PD8	Inout	LVTTL, leakage, 2mA	Image data I/O port D
18	PD9	Inout	LVTTL, leakage, 2mA	Image data I/O port D(MSB)
19	GND	Р	-	Digital Ground
20	GND	Р	•	Digital Ground
21	GND	Р	-	Digital Ground
22	VDD3	Р	•	VDD for IO (3.3V)
23	NHS	In	Schmitt	Horizontal synchronization input terminal
24	NVS	ln	Schmitt	Vertical synchronization input terminal
25	PA0	ln	LVTTL	Image data I/O port A(LSB)
26	PA1	In	LVTTL	Image data I/O port A
27	PA2	In	LVTTL	Image data I/O port A
28	PA3	ln	LVTTL	Image data I/O port A
29	PA4	ln	LVTTL	Image data I/O port A
30	PA5	ln	LVTTL	Image data I/O port A
31	PA6	In	LVTTL	Image data I/O port A
32	PA7	ln	LVTTL	Image data I/O port A
33	PA8	ln	LVTTL	Image data I/O port A
34	PA9	ln	LVTTL	Image data I/O port A(MSB)
35	MA4	Out	2mA	SDRAM address output terminal
36	МАЗ	Out	2mA	SDRAM address output terminal
37	MA5	Out	2mA	SDRAM address output terminal
38	MA2	Out	2mA	SDRAM address output terminal
39	GND	Р		Digital Ground
40	VDD3	Р	-	VDD for IO (3.3V)

F:	T	1	T	
Pin No.	Name	I/O/ P	Attribute	Functional Description
41	VDD2	Р	-	VDD for Core (2.5V)
42	MA6	Out	2mA	SDRAM address output terminal
43	MA1	Out	2mA	SDRAM address output terminal
44	MA7	Out	2mA	SDRAM address output terminal
45	MAO	Out	2mA	SDRAM address output terminal(LSB)
46	MA8	Out	2mA	SDRAM address output terminal
47	MA10	Out	2mA	SDRAM address output terminal
48	VDD3	P	-	VDD for IO (3.3V)
49	MA9	Out	2mA	SDRAM address output terminal
50	MA11	Out	2mA	SDRAM address output terminal(MSB)
51	GND	Р	*	Digital Ground
- 52	RAS	Out	2mA	SDRAM Row Address Strobe Command output terminal
53	MCLK	Out	4mA	SDRAM Clock output terminal (54MHz)
54	CAS	Out	2mA	SDRAM Column Address Strobe Command output terminal
55	WE	Out	2mA	SDRAM Write Enable output terminal
56	VDD3	Р	-	VDD for IO (3.3V)
57	MD8	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
58	MD7	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
59	MD9	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
60	PDOEN	ln	LVTTL	Image port D input and output setting input terminal (L: input, H: output)
61	GND	Р	-	Digital Ground
62	GND	Р	-	Digital Ground
63	MD6	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
64	MD10	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
65	VDD3	Р	_	VDD for IO (3.3V)
66	MD5	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
67	MD11	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
68	MD4	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
69	MD12	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
70	MD3	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
71	MD13	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
72	GND	Р		Digital Ground
73	VDD3	Р	-	VDD for IO (3.3V)
74	MD2	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
75	MD14	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
76	MD1	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
77	MD15	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
78	MD0	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal(LSB)
79	VDD2	Р	•	VDD for Core (2.5V)
80	VDD3	Р	-	VDD for IO (3.3V)
81	VDD3	Р	•	VDD for IO (3.3V)
82	GND	Р	-	Digital Ground
83	MD16	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal

Pin No.	Name	I/O/ P	Attribute	Functional Description
84	MD17	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
85	MD18	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
86	MD19	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal(MSB)
87	GND	Р	şa	Digital Ground
88	AGND	Р	-	Ground for DAC
89	DAO_Y	Out	-	Analog video-out (Y)
90	AVDD2	Р	-	VDD for DAC (2.5V)
91	DAO_Cb	Out	•	Analog video-out (Cb)
92	AGND	Р	-	Ground for DAC
93	DAO_Cr	Out	ad	Analog video-out (Cr)
94	AVDD2	P	-	VDD for DAC (2.5V)
95	VREF	In	-	DAC reference voltage input terminal
96	FSADJ	Inout	-	An ohms connection terminal for DAC peak swing setting
97	AVDD2	P	-	VDD for DAC (2.5V)
98	VG	Out	•	A volume connection terminal for gate voltage compensation of a DAC electric current cell
99	AGND	Р	-	Ground for DAC
100	GND	Р	-	Digital Ground
101	GND	Р	-	Digital Ground
102	GND	P		Digital Ground
103	GND	Р	•	Digital Ground
104	CLMP	Out	2mA	Clamp pulse output terminal
105	TEST0	ln	LVTTL	Test exclusive use input terminal
106	TEST1	ln	LVTTL	Test exclusive use input terminal
107	TEST2	In	LVTTL	Test exclusive use input terminal
108	TEST3	In	LVTTL	Test exclusive use input terminal
109	TEST4	In	LVTTL	Test exclusive use input terminal
110	SPR0	Out	2mA	Serial-to-parallel conversion output terminal(LSB)
111	SPR1	Out	2mA	Serial-to-parallel conversion output terminal
112	VDD3	Р	-	VDD for IO (3.3V)
113	SPR2	Out	2mA	Serial-to-parallel conversion output terminal
114	SPR3	Out	2mA	Serial-to-parallel conversion output terminal
115	SPR4	Oüt	2mA	Serial-to-parallel conversion output terminal
116	SPR5	Out	2mA	Serial-to-parallel conversion output terminal
117	GND	P	-	Digital Ground
118	SPR6	Out	2mA	Serial-to-parallel conversion output terminal
119	SPR7	Out	2mA	Serial-to-parallel conversion output terminal(MSB)
120	VDD3	Р	•	VDD for IO (3.3V)
121	VDD2	Р	-	VDD for Core (2.5V)
122	GND	Р	-	Digital Ground
123	PB0	Inout	LVTTL, leakage, 2mA	Image data I/O port B(LSB)
124	PB1	Inout	LVTTL, leakage, 2mA	Image data I/O port B
125	PB2	Inout	LVTTL, leakage, 2mA	Image data I/O port B
126	PB3	Inout	LVTTL, leakage, 2mA	Image data I/O port B
127	VDD3	Р	-	VDD for IO (3.3V)
128	PB4	Inout	LVTTL, leakage, 2mA	Image data I/O port B

Pin	Name	1/0/	Attribute	Te : : :
No.	Ivame	I/O/ P	Attribute	Functional Description
129	PB5	Inout	LVTTL, leakage, 2mA	Image data I/O port B
130	GND	Р	-	Digital Ground
131	PB6	Inout	LVTTL, leakage, 2mA	Image data I/O port B
132	PB7	Inout	LVTTL, leakage, 2mA	Image data I/O port B
133	PB8	Inout	LVTTL, leakage, 2mA	Image data I/O port B
134	PB9	Inout	LVTTL, leakage, 2mA	Image data I/O port B(MSB)
135	PBOEN	In	LVTTL	Image port B input and output setting input terminal (L: input, H: output)
136	VDD3	Р	-	VDD for IO (3.3V)
137	PC0	Out	2mA	Image data I/O port C(LSB)
138	PC1	Out	2mA	Image data I/O port C
139	PC2	Out	2mA	Image data I/O port C
140	PC3	Out	2mA	Image data I/O port C
141	GND	Р	-	Digital Ground
142	GND	Р	-	Digital Ground
143	PC4	Out	2mA	Image data I/O port C
144	PC5	Out	2mA	Image data I/O port C
145	VDD3	Р	-	VDD for IO (3.3V)
146	PC6	Out	2mA	Image data I/O port C
147	PC7	Out	2mA	Image data I/O port C
148	PC8	Out	2mA	Image data I/O port C
149	PC9	Out	2mA	Image data I/O port C(MSB)
150	GND	Р	-	Digital Ground
151	CSB	ln	Schmitt	MPU Interface chip select input terminal
152	SDA	·In	Schmitt	MPU Interface data entry terminal
153	SCL	ln	Schmitt	MPU Interface clock input terminal
154	SRN	. In	Schmitt	System reset input terminal
155	CKIPOL	ln-	LVTTL	System clock polarity setting input terminal
156	PLL_VDD	P	-	VDD of PLL exclusive use (2.5V)
157	CPOUT	Out	Analog	Analog output terminal from PLL charge pump
158	VCOIN	. In	Analog	Analog input terminal from PLL outside charge account loop filter
159	PLL_GND	Р		Ground of PLL exclusive use
160	VDD3	Р	-	VDD for IO (3.3V)

■ PE5251A (FLIR ASSY : IC101)

Mode Control IC

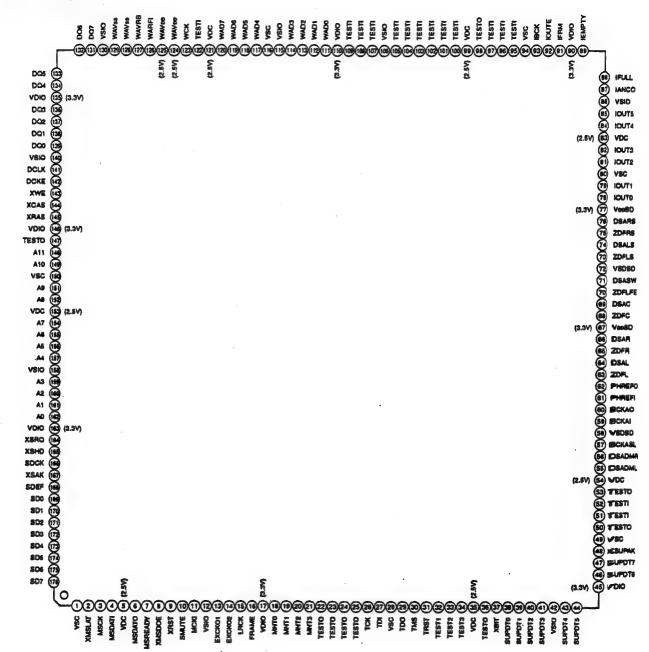
• Pin Function

No.	Pin Name	1/0	Pin Function		
1	VDD1	-	Positive power supply (excepting port, analog and FIP controller/driver section)		
2	VSS1	-	Ground (excepting port and analog)		
3	X1	1	Connect a crystal for main system clock oscillation		
4	X2	-	Connect a crystal for main system clock oscillation		
5	IC	<u> </u>	Internal connection Connect to Vss1 directly.		
6	RESET	<u> </u>	System reset input		
7	P27/SCK1	1/0	Port 2 8 bit input/output port / serial clock input/output		
8	P26/Si1	1/0	Port 2 8 bit input/output port / Serial data input		
9	P25/SO1	1/0	Port 2 8 bit input/output port / Serial data output		
10	P24/BUSY	1/0	Port 2 8 bit input/output port / Busy signal input		
11	P23	1/0	Port 2 8 bit input/output port		
12	P22] "			
13	P21/SO3	100	Port 2 8 bit input/output port / Serial data output		
14	P20/SCK3	1/0	Port 2 8 bit input/output port / serial clock input/output		
15	P00/INTP0	1/01	Port 0 3 bit input/output port / External interrupt request input		
16	P01/INTP1				
17	P02/TI	1/01	Port 0 3 bit input/output port / Timer input of 8 bit remote control timer (TM9)		
18	AVSS	_	Ground of A/D converter		
19	ANI3		·		
20	ANI2		Analog input of A/D convertes		
21	ANI1] '	Analog input of A/D converter		
22	ANIO]			
23	VSS0	-	Ground of port section		
24	AVDD	-	Analog power supply of A/D converter / reference voltage input		
25	VDD0	-	Positive power supply of port section		
26	P64				
27	P63]			
28	P62	1/0	Port 6 5-bit high proof pressure input/output ports of P-ch open drain		
29	P61]			
30	P60				
31	P57				
32	P56]			
33	P55]			
34	P54	1,,,	Death Collaboration and a second seco		
35	P53	1/0	Port 5 8-bit high proof pressure input/output ports of P-ch open drain		
36	P52	1			
37	P51	1			
38	P50				
39	P47				
40	P46	0	Port 4 8-bit high proof pressure input/output ports of P-ch open drain		

No.	Pin Name	I/O	Pin Function	
41	P45			
42	P44	0	Port 4 8-bit high proof pressure input/output ports of P-ch open drain	
43	P43/FIP35			
44	P42/FIP34	1	Port 4 8-bit high proof pressure input/output ports of P-ch open drain / High proof presure large current output	
45	P41/FIP33	0	of FIP controller/driver	
46	P40/FIP32	1		
47	P37/FIP31			
48	P36/FIP30	1		
49	P35/FIP29			
50	P34/FIP28		Port 3 8-bit high proof pressure input/output ports of P-ch open drain / High proof presure large current output	
51	P33/FIP27		of FIP controller/driver	
52	P32/FIP26	1		
53	P31/FIP25	1		
54	P30/FIP24			
55	FIP23			
56	FIP22	0	High proof procure laws assessed at 5 500 at 15	
57	FIP21		High proof presure large current output of FIP controller/driver	
58	FIP20			
59	VDD2	-	Positive power supply of FIP controller/driver section	
60	VLOAD	-	Connect a pull-down resistor of FIP controller/driver	
61	FIP19			
62	FIP18			
63	FIP17		-	
64	FIP16			
65	FIP15			
66	FIP14			
67	FIP 13			
	FIP12			
	FIP11			
70	FIP10	0	High proof presure large current output of FiP controller/driver	
_	FIP9		The state of the state of the state of the controller and the state of	
72				
	FIP7			
	FIP6			
75	FIP5			
76	FIP4			
77	FIP3			
78	FIP2			
	FIP1			
80	FIPO			

CXD2753R (SACD ASSY : IC801)

- SACD Decorder
- Pin Arrangement



• Pin Function

1 VSC 2 MSLAT 3 MSCK 1 Sint lock input terminal for microcomputer serial communication 3 MSCK 1 Sint lock input terminal for microcomputer serial communication 3 MSCK 1 Sint lock input terminal for microcomputer serial communication 3 MSCK 1 Sint lock input terminal for microcomputer serial communication 4 MSLATC 2 Power supply terminal for microcomputer serial communication 3 MSCK 2 Data surplus terminal for microcomputer serial communication 4 Output preparation completion flag for microcomputer serial communication 4 Output preparation completion flag for microcomputer serial communication 4 Output preparation completion flag for microcomputer serial communication 4 Output preparation completion flag for microcomputer serial communication 4 Output preparation completion flag for microcomputer serial communication 4 Output preparation completion flag for microcomputer serial communication 5 Output preminal 5 or microcomputer serial communication 6 Output preminal 6 Output terminal 6 Output terminal 7 Output seriminal 6 Output terminal 7 Output terminal 8 Output 1 O	No.	Pin Name	1/0	Pin Function	
2			-	- Tollotton	
Shift clock input terminal for microcomputer serial communication MSDATO Power supply terminal for microcomputer serial communication			-		
A sisSal Data entry terminal for microcomputer serial communication			1		
5 VDC - Power supply terminal for core 6 MSDATO O Comput representation completion flag for microcomputer serial communication 7 MSREADY O Comput representation completion flag for microcomputer serial communication 9 XRST I Reset terminal resets the whole IC with "L". 10 SMUTE Ipd Scrittment and the whole IC with "L". 11 McKI I Master clock input terminal Image: Master clock input terminal 12 VSIO Ground terminal for IC ID 13 EXCKOI Convolute comput clock terminal 1 14 EXCKOZ O Uniside output clock terminal 2 15 LRCK Frame signal output terminal 16 RMNT0 Power supply terminal for I/O 18 MNT0 Ipuput terminal for test 26 TCK I It is fixation in "L" a clock input terminal for test. 27 TDI Ipuput terminal for test 28 TEST Ipuput terminal for test 30 TKS Ipuput terminal for test			1 .		
B MSDATO Output preparation completion flag for microcomputer serial communication Output terminal Output termin	-		-		
7	-		-		
8					
9 XRST 1 Reset terminal resets the whole IC with "L" with "H" a soft mute terminal. 10 SMUTE Ipd Software mute removes audio out with "L" with "H" a soft mute terminal. 11 MCKI J Master clock input terminal Outside output clock terminal Outside output terminal Out		L	-		
10 SMUTE			1		
MCK Master clock input terminal Movement Movem			-		
12			ipu		
13			 ' -		
14 EXCK02 15 LRCK 16 FRAME Frame signal output terminal 2 1 17 VDIO - Power supply terminal for I/O			-		
15 LRCK FRAME Frame signal output terminal Frame signal	_		1		
Frame signal output terminal			0		
17 VDIC -					
18 MNT0 19 MNT1 20 MNT2 21 MNT3 22 23 TESTO 25 TOI	$\overline{}$				
19 MNT1 20 MNT2 21 MNT3 22 P 22 P 23 TEST0 25 Output terminal for test 26 TCK I I It is fixation in "L" a clock input terminal for test. 27 TDI Ipu Ipu Input terminal for test 28 VSC - Ground terminal for test 29 TDO 0 Output terminal for test 30 TMS Ipu Input terminal for test 31 TRST 19 Reset terminal for test 33 TEST1 It is fixation in "L" a clock input terminal for test 41 TEST3 43 TEST3 44 TEST3 45 VDC - Power supply terminal for core 46 TEST0 47 XBIT DST connection monitor terminal 48 SUPDT3 49 SUPDT3 40 SUPDT3 41 SUPDT3 42 VSIO - Ground terminal for I/O 43 SUPDT6 44 SUPDT6 45 VDIO - Power supply terminal for I/O 5 Supplementary data output terminal 5 Supplementary data output terminal 6 Supplementary data output terminal 7 Supplementary data output terminal 8 SUPDT6 9 Supplementary data output terminal			-	Power supply terminal for I/O	
20 MNT2 21 MNT3 22 TESTO 23 TESTO 24 TESTO 25 TOK 26 TCK 27 TDI 28 VSC 29 TDO 30 TMS 30 TMS 31 TRST 33 TEST2 31 TEST3 33 TEST2 34 TEST3 35 VDC 36 TEST0 37 XBIT 38 SUPDT0 39 SUPDT1 40 SUPDT3 41 SUPDT3 42 VSIO 43 SUPDT3 44 SUPDT5 45 VDIO 46 SUPDT5 47 SUPDT7 48 SUPDT7 49 VSC 40 TESTO 40 Monitor output terminal Output terminal for test DST connection monitor terminal Supplementary data output terminal					
Maria Company Compan				Monitor output terminal	
TESTO TESTO Cutput terminal for test It is fixation in "L" a clock input terminal for test Cutput terminal for test Cutput terminal for test Input terminal for test Cutput terminal for test Cu					
Computation of test		MN 13	0		
TESTO Coutput terminal for test Coutput termin					
25		TESTO		Output terminal for test	
26 TCK I It is fixation in "L" a clock input terminal for test. 27 TDI Ipu Input terminal for test 28 VSC - Ground terminal for core 29 TDO O Output terminal for test 30 TMS Input terminal for test Reset terminal for test Reset terminal for test 1 It is fixation in "L" a clock input terminal for test. 32 TEST1 It is fixation in "L" a clock input terminal for test. 33 TEST2 I It is fixation in "L" a clock input terminal for test. 34 TEST3 Output terminal for core 35 VDC - Power supply terminal for core 36 TEST0 Output terminal for test DST connection monitor terminal Supplementary data output terminal (LSB) Supplementary data output terminal 40 SUPDT3 Output terminal for I/O Supplementary data output terminal 41 SUPDT5 Output terminal for I/O Supplementary data output terminal 42 VSIO - Ground terminal for I/O Supplementary data output terminal 43 SUPDT6 Output terminal for I/O Supplementary data output terminal 44 SUPDT6 Supplementary data output terminal 45 VDIO - Power supply terminal for I/O Supplementary data output terminal 46 SUPDT6 Output terminal for I/O Supplementary data output terminal 50 Supplementary data output terminal 51 SUPDT7 Output terminal for I/O 52 Supplementary data output terminal 53 SUPDT6 Output terminal for I/O 54 SUPDT7 Output terminal for I/O 55 Supplementary data output terminal 56 Supplementary data output terminal 57 SUPDT7 Output terminal for core					
27 TDI		7014			
28 VSC					
29 TDO O Output terminal for test 30 TMS			lpu		
30 TMS Ipu Input terminal for test 31 TRST Reset terminal for test 32 TEST1 It is fixation in "L" a clock input terminal for test. 33 TEST2 I it is fixation in "L" a clock input terminal for test. 34 TEST3 Power supply terminal for core 35 VDC - Power supply terminal for test 37 XBIT Output terminal for test 38 SUPDT0 DST connection monitor terminal 39 SUPDT1 Supplementary data output terminal (LSB) 40 SUPDT2 Supplementary data output terminal 41 SUPDT3 Ground terminal for I/O 43 SUPDT4 Supplementary data output terminal 44 SUPDT5 Supplementary data output terminal 45 VDIO Power supply terminal for I/O 46 SUPDT6 Supplementary data output terminal 47 SUPDT7 Output terminal data output terminal (MSB) 5UPDT6 Supplementary data output terminal (MSB) 5UPDT6 Ground terminal for core					
TRST			0		
Reset terminal for test Reset terminal for test			lou.		
It is fixation in "L" a clock input terminal for test. TEST3 TEST3 TEST3 TEST0 Power supply terminal for core Output terminal for test DST connection monitor terminal Supplementary data output terminal (LSB) Supplor Supplor Supplementary data output terminal Supplementary data output terminal Supplor Supplor Supplementary data output terminal TEST3 TE				Reset terminal for test	
35 VDC 36 TESTO 37 XBIT 38 SUPDTO 39 SUPDT1 40 SUPDT2 41 SUPDT3 42 VSIO 43 SUPDT4 44 SUPDT5 5 VDIO 5 Power supply terminal for I/O 45 VDIO 6 SUPDT6 6 SUPDT6 7 SUPDT7 6 Supplementary data output terminal 6 SUPDT7 6 Supplementary data output terminal 7 SUPDT7 7 SUPDT7 8 Supplementary data output terminal 7 SUPDT7 8 Supplementary data output terminal 8 Supplementary data output terminal 9 VSC 9 Ground terminal for I/O 9 Supplementary data output terminal 9 Supplementary data output terminal 9 VSC 1 Ground terminal for core					
Support Support			- 1	It is fixation in "L" a clock input terminal for test.	
Dutput terminal for test					
DST connection monitor terminal SUPDT0 Supplementary data output terminal Condition of the content o	_				
Supplementary data output terminal (LSB) Supplementary data output terminal Ground terminal for core					
39 SUPDT1 40 SUPDT2 41 SUPDT3 42 VSIO 43 SUPDT4 44 SUPDT5 45 VDIO 46 SUPDT6 47 SUPDT7 48 XSUPAK 49 VSC 40 Supplementary data output terminal 50 Supplementary data output terminal 51 Supplementary data output terminal 52 Supplementary data output terminal 53 Supplementary data output terminal 54 SUPDT6 55 Supplementary data output terminal 56 Supplementary data output terminal 57 Supplementary data output terminal 58 Supplementary data output terminal 59 Supplementary data output terminal 60 Supplementary data output terminal 61 Supplementary data output terminal 62 Supplementary data output terminal 63 Supplementary data output terminal 64 Supplementary data output terminal 65 Supplementary data output terminal 66 Supplementary data output terminal 67 Supplementary data output terminal 68 Supplementary data output terminal 69 Supplementary data output terminal					
39 SUPDT1 40 SUPDT2 41 SUPDT3 42 VSIO 43 SUPDT4 44 SUPDT5 45 VDIO 46 SUPDT6 47 SUPDT7 48 XSUPAK 49 VSC 40 Supplementary data output terminal 5 Supplementary data output terminal 6 Supplementary data output terminal 7 Supplementary data output terminal 8 Supplementary data output terminal 9 VSC 5 Ground terminal for core			0	Supplementary data output terminal (LSB)	
41 SUPDT3 42 VSIO - Ground terminal for I/O 43 SUPDT4 O Supplementary data output terminal 44 SUPDT5 - Power supply terminal for I/O 45 VDIO - Power supply terminal for I/O 46 SUPDT6 Supplementary data output terminal 47 SUPDT7 O Supplementary data output terminal (MSB) 48 XSUPAK Supplementary data output terminal 49 VSC - Ground terminal for core			-		
42 VSIO - Ground terminal for I/O 43 SUPDT4 O Supplementary data output terminal 44 SUPDT5 - Power supply terminal for I/O 45 VDIO - Power supply terminal for I/O 46 SUPDT6 Supplementary data output terminal 47 SUPDT7 O Supplementary data output terminal (MSB) 48 XSUPAK Supplementary data output terminal 49 VSC - Ground terminal for core				Supplementary data output terminal	
43 SUPDT4 44 SUPDT5 O Supplementary data output terminal 45 VDIO 46 SUPDT6 Supplementary data output terminal 47 SUPDT7 O Supplementary data output terminal 48 XSUPAK Supplementary data output terminal (MSB) Supplementary data output terminal 49 VSC - Ground terminal for core					
44 SUPDT5 O Supplementary data output terminal 45 VDIO - Power supply terminal for I/O 46 SUPDT6 Supplementary data output terminal 47 SUPDT7 O Supplementary data output terminal (MSB) 48 XSUPAK Supplementary data output terminal 49 VSC - Ground terminal for core			-	Ground terminal for I/O	
44 SUPDT5 45 VDIO - Power supply terminal for I/O 46 SUPDT6 Supplementary data output terminal 47 SUPDT7 O Supplementary data output terminal (MSB) 48 XSUPAK Supplementary data output terminal 49 VSC - Ground terminal for core	43	SUPDT4	0	Supplementary data output terminal	
46 SUP DT6 Supplementary data output terminal 47 SUP DT7 O Supplementary data output terminal (MSB) 48 XSUPAK Supplementary data output terminal 49 VSC - Ground terminal for core				Outpromoniary data output terminar	
47 SUPDI7 O Supplementary data output terminal (MSB) 48 XSUPAK Supplementary data output terminal 49 VSC - Ground terminal for core	_		-	Power supply terminal for I/O	
48 XSUPAK Supplementary data output terminal 49 VSC - Ground terminal for core					
49 VSC - Ground terminal for core				Supplementary data output terminal (MSB)	
	48	XSUPAK		Supplementary data output terminal	
50 TESTO O Output terminal for test	49	VSC	-	Ground terminal for core	
	50	TESTO	0	Output terminal for test	

No.	Pin Name	I/O	Pin Function			
51						
52	TESTI		t is fixation in "L" a test input terminal.			
	TESTO	0	Output terminal for test			
54	VDC	-	Power supply terminal for core			
	DSADML	0	DSD data output terminal for Lch Down Mix			
	DSADMR		DSD data output terminal for Rch Down Mix			
	BCKASL	1	nput and output choice terminal of a 1 bit clock for DSD data output.L= input (slave), H = output (master).			
	VSDSD	-	Ground terminal for DSD data output			
59	BCKAI	1	Bit clock input terminal for DSD data output			
60	BCKAO	0	Bit clock output terminal for DSD data output			
61	PHREFI	ı	Phase reference signal input terminal for DSD output phase modulation			
62	PHREFO		Phase reference signal output terminal for DSD output phase modulation			
63	ZDFL		Zero Lch data search flag			
64	DSAL	0	DSD data output terminal for Lch loud speaker			
65	ZDFR		Zero Rch data search flag			
66	DSAR		DSD data output terminal for Rch loud speaker			
67	VDDSD	-	Power supply Mizuko for DSD data output			
68	ZDFC		Zero Cch data search flag			
69	DSAC		DSD data output terminal for Cch loud speaker			
70	ZDFLFE	0	Zero LFEch data search flag			
71	DSASW		DSD data output terminal for SWch loud speaker			
72	VSDSD	-	Ground terminal for DSD data output			
73	ZDFLS		Zero LSch data search flag			
74	DSALS		DSD data output terminal child for LSch loud speaker			
	ZDFRS	0	Zero RSch data search flag			
	DSARS		DSD data output terminal for RSch loud speaker			
	VDDSD	-	Power supply Mizuko for DSD data output			
78	IOUT0		Data output terminal 0 for IEEE1394 link tip I/F			
	IOUT1	0	Data output terminal 1 for IEEE1394 link tip I/F			
	VSC	-	Ground terminal for core			
	IOUT2		Data output terminal 2 for IEEE1394 link tip I/F			
_	IOUT3	0	Data output terminal 3 for IEEE1394 link tip I/F			
	VDC	-	Power supply terminal for co			
	IOUT4		Data output terminal 4 for IEEE1394 link tip I/F			
	IOUT5	0	Data output terminal 5 for IEEE1394 link tip I/F			
	VSIO	_	Ground terminal for I/O			
	IANCO		Transmission information data output terminal for IEEE1394 link tip I/F			
	IFULL		Data transmission hold demand signal input terminal for IEEE1394 link tip I/F			
	EMPTY		High speed transmission demand signal input terminal for IEEE1394 link tip I/F			
	VDIO		Power supply terminal for I/O			
	IFRM		Frame reference signal output Mizuko for IEEE1394 link tip I/F			
	IOUTE		Enable signal output terminal for IEEE1394 link tip I/F			
	IBCK		Data transmission clock output terminal for IEEE1394 link tip I/F			
94			Ground terminal for core			
	V30					
95	TECTI		It is fixation in "H" a test input terminal.			
	TESTI		It is fixation in "L" a test input terminal.			
97	TECTO		It is fixation in "H" a test input terminal.			
	TESTO		Output terminal for test			
99			Power supply terminal for co			
100	TESTI	!	It is fixation in "L" a test input terminal.			

No.	Pin Name	1/0	Pin Function			
101						
102	1	1.				
103	TESTI	1	It is fixation in "L" a test input terminal.			
104			· ·			
105						
106	VSIO	-	Ground terminal for I/O			
107						
108	TESTI	1	It is fixation in "L" a test input terminal.			
109						
110	VDIO	-	Power supply terminal for I/O			
111	WAD0		Outside A/D data entry terminal for PSP Physical Disc Mark search (LSB)			
112	WAD1	1.	Outside A/D data entry terminal for PSP Physical Disc Mark search			
113	WAD2	1 '				
114	WAD3	1	• • • • • • • • • • • • • • • • • • • •			
	VSIO	-	Ground terminal for I/O			
	vsc	-	Ground terminal for core			
	WAD4					
	WAD5] ,	Outside A/D data entry terminal for PSP Physical Disc Mark search			
	WAD6] '				
	WAD7		Outside A/D data entry terminal for PSP Physical Disc Mark search (MSB)			
	VDC	-	Power supply terminal for core			
_	TESTI	1	It is fixation in "L" a test input terminal.			
	WCK		Movement clock for PSP Physical Disc Mark search			
124 125	WAVDD	-	A/D power supply terminal for PSP Physical Disc Mark search			
126	WARFI	Ai	Analog RF signal input terminal for PSP Physical Disc Mark search			
	WAVRB	73	A/D bottom reference terminal for PSP Physical Disc Mark search			
128 129	WAVSS	-	A/D ground terminal for PSP Physical Disc Mark search			
130	VSIO	-	Ground terminal for I/O			
131	DQ7		SDRAM data input-output terminal (MSB)			
132	DQ6	1/0				
	DQ5	//	SDRAM data input-output terminal			
	DQ4					
	VDIO	-	Power supply terminal for I/O			
	DQ3					
	DQ2	1/0	SDRAM data input-output terminal			
_	DQ1	")				
	DQO		SDRAM data input-output terminal (LSB)			
	VSIO		Ground terminal for I/O			
	DCLK		Clock output terminal for SDRAM			
	DCKE		Clock enable output terminal for SDRAM			
	XWE		Wright enable output terminal for SDRAM			
	XCAS	-	Column address strobe output terminal for SDRAM			
	XRAS		Row address strobe output terminal for SDRAM			
	VDIO		Power supply terminal for I/O			
	TEST0		Output terminal for test			
148		-	Address output terminal for SDRAM (MSB)			
149			Address output terminal for SDRAM			
150	vsC	- 1	Ground terminal for core			

No.	Pin Name	I/O	Pin Function
151	A9	0	Address output terminal for SDRAM
152	A8		Address output terminarior Schalar
153	VDC	-	Power supply terminal for core
154	A7		
155	A6	0	Address output terminal for SDRAM
156	A5		Address output terminal for SDRAW
157	A4		
158	VSIO	-	Ground terminal for I/O
159	АЗ		
160	A2	0	Address output terminal for SDRAM
161	A1		
162	A0		Address output terminal for SDRAM (LSB)
163	VDIO	-	Power supply terminal for I/O
164	XSRQ	0	Data request output terminal to input into a front end processor
165	XSHD		Input terminal of a header flag output by a front end processor
166	SDCK		Input terminal of a data carrier clock output by a front end processor
167	XSAK		Input terminal of data partial response flag output by a front end processor
168	SDEF		Input terminal of error flag output by a front end processor
169	SD0		The stream data input terminal which is output by a front end processor (LSB)
170	SD1		
171	SD2	'	
172	SD3		The stream data input terminal which is output by a front end processor
173	SD4		The stream data input terminal which is output by a front end processor
174	SD5		
175	SD6		·
176	SD7		The stream data input terminal which is output by a front end processor (MSB)

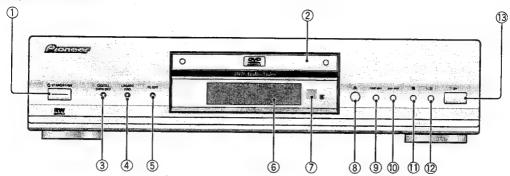
Ipu: Pull-up input, Ipd: Pull-down input, Ai: Analog input

8. PANEL FACILITIES AND SPECIFICATIONS

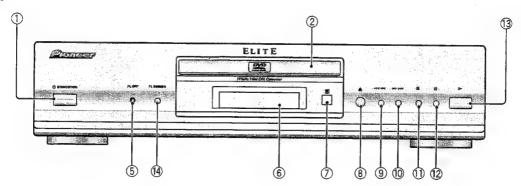
8.1 PANEL FACILITIES

8.1.1 Front Panel

DV-S733A, DV-747A



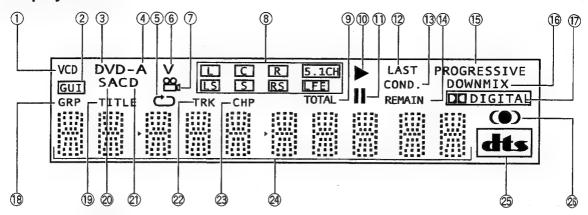
DV-47A



- 1 OSTANDBY/ON
- 2 Disc tray
- **3 DIGITAL DATA OFF indicator** Switches the digital output on/off. When switched off, the indicator lights
- 4 LEGATO PRO indicator
- 5 FL OFF indicator Lights when the display is switched off using the FL DIMMER button
- 6 Display

- 7 Remote control sensor
- 8 ≜ Disc tray open/close
- 10 ►► ►► Forward scan/skip
- 11 - Stop
- 12 II Pause
- 13 ► Play
- 14 FL DIMMER Press to change the display brightness

8.1.2 Display Window

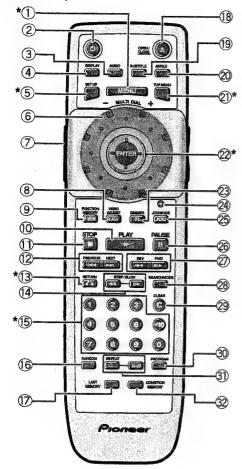


- 1 VCD Lights when a Super VCD/Video CD is loaded
- 2 GUI Lights when an on-screen menu is being displayed
- 3 DVD Lights when a DVD is loaded
- 4 DVD-A Lights when a DVD-Audio disc is playing
- 5 Lights during repeat play
- 6 V Lights during playback of the video part of DVD discs
- 7 Lights during a multi-angle section of a DVD-Video disc
- 8 L, C, R, LS, S, RS, LFE show which channels are recorded on the disc playing
 - **5.1CH** Lights when the audio ouput is set to 5.1 channel
- 9 TOTAL Indicates that the time shown in the character display is the total playing time of the disc
- 10 ► Lights when a disc is playing
- 11 II Lights wheh a disc is paused
- 12 LAST Lights when the disc has a bookmark memory
- **13 COND.** Lights when the disc has had preferences set
- 14 REMAIN Indicates that the time shown in the character display is the remaining playing time of the disc

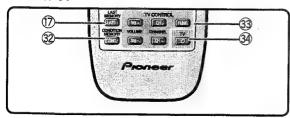
- 15 PROGRESSIVE Lights when unit isoutputing 525 line progressive scan (non-interlaced) video. [except DV-747]
- 16 DOWNMIX Lights when multi-channel DVD-Audio, Dolby Digital, DTS or MPEC audio is downmixed, for example to two channel stereo
- 17 DD DIGITAL Lights when a disc with Dolby Digital audio is playing
- **18 GRP** Indicates that the number below in the character display is a DVD-Audio group number
- 19 TITLE Indicates that the number below in the character display is a DVD-Video title number
- 20 SACD Lights when a Super Audio CD (SACD) is loaded
- 21 CD Lights when a CD is loaded
- 22 TRK Indicates that the number below in the character display is a DVD-Audio, CD, Super VCD/Video CD or MP3 track number
- 23 CHP Indicates that the number below in the character display is a DVD-Video chapter number
- 24 Character display
- 25 Lights when a disc with DTS audio is playing
- 26 Lights when playing a disc with TruSurround switched on

8.1.3 Remote Control

DV-S733A, DV-747A



DV-47A



- 1 MENU
- 2 **૭** switches player on or into standby.
- 3 AUDIO
- 4 DISPLAY
- 5 SETUP
- 6 MULTI DIAL
- 7 LIGHTING press to illuminate buttons 8,9, 10, 11, 23, 25, 26
- 8 V.ADJ Video adjust
- 9 F.MEM Function memory
- **10** ► Play
- **11** – Stop
- 13 6 Return
- 14 **◄II II▶** Frame advance/slow motion
- 15 Number buttons
- 16 RANDOM
- 17 LAST MEMORY
- **18** ≜ Disc tray open/close
- 19 SUBTITLE
- 20 ANGLE
- 21 TOP MENU
- 22 Joystick / ENTER button
- 23 FL Press to change the display brightness
- 24 Jog indicator lights when multi dial is in jog mode
- **25 JOG**
- 26 II Pause
- 27 **◄** ► ► Scan
- 28 SEARCH MODE
- **29 C** Clear
- **30 PROGRAM**
- 31 REPEAT A-B
- **32 CONDITION MEMORY**
- 33 TV CONTROL buttons

VOLUME – Use to adjust the volume.

CHANNEL - Use to select TV channel.

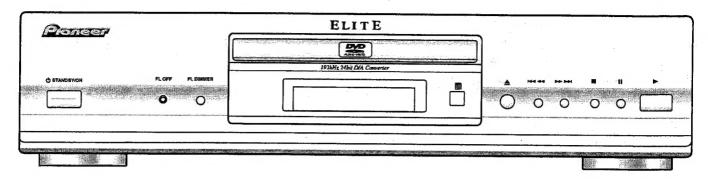
FUNC – Press **FUNC** to select the TV

forremote control operation.

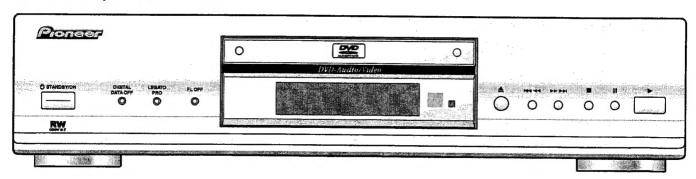
34 OTV button – Press **OTV** to turn the TVs power on or put in standby.

8.1.4 Front View

■ DV-47A

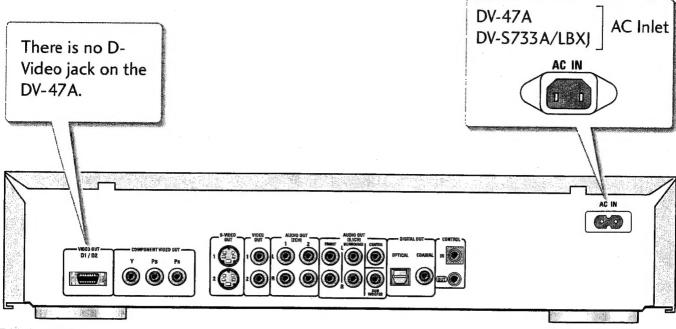


■ DV-S733A, DV-747A



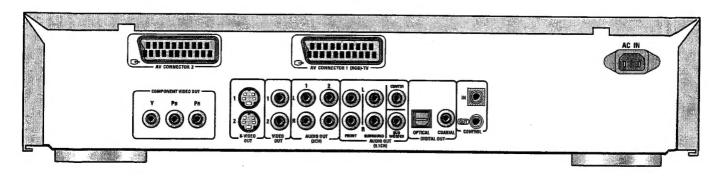
8.1.5 Rear View

■ DV-47A, DV-S733A



DV-S733A

■ DV-747A



8.2 SPECIFICATIONS

■ DV-47A, DV-S733A

•
General
System
DVD-Video, DVD-Audio, DVD-R/RW, Super VCD, Video-
CD, SACD, CD and MP3 files
Power requirements
DV-47A 120 V, 60 Hz
DV-S733A
Taiwanese model 110 V, 60 Hz
Other models 220-240 V, 50/60 Hz
Power consumption14 W
Power consumption in standby mode
DV-47A 0.3 W
DV-S733A
Taiwanese model 0.3 W
Other models 0.5 W
Weight
DV-47A 4.2 kg (9 lb 4 oz)
DV-S733A 4.5 kg
Dimensions
DV-47A 420 (W) x 277 (D) x 97.5 (H) mm
$(16.9)_{16}$ (W) x 10.15 $_{16}$ (D) x 3.7 $_{8}$ (H) in.)
DV-S733A 420 (W) x 278 (D) x 97.5 (H) mm
Operating temperature +5°C to +35°C (+36°F to +96°F)
Operating humidity 5% to 85% (no condensation)
S-Video output (2 individual outputs)
Y (luminance) - Output level
C (color) - Output level
Jacks S-VIDEO jack
Video output (2 individual outputs)
Output level 1 Vp-p (75 Ω)
Jacks RCA jack
•
Component video output (Y, Ps, Pr)
Output levelΥ: 1.0 Vp-p (75 Ω)
P _B , P _R : 0.7 Vp-p (75 Ω)
Jacks RCA jacks
D1/D2 video output (DV-S733A only)
Output level Y: 1.0 Vp-p (75 Ω)
P _B , P _R : 0.7 Vp-p (75 Ω)
7 B, 1 K, O.7 VP-P (7.5 SZ)

Audio output (2 pairs) Output level	
During audio output	B)
Jacks RCA ja	cl
Audio output (multi-channel / L, R, C, SW, LS, RS) Output level	
During audio output	B)
Jacks RCA ja	ck
Digital audio characteristics	
Frequency response 4 Hz to 44 kHz (DVD fs: 96 kH 4 Hz to 88 kHz (DVD-Audio fs: 192 kHz)	
S/N ratio 118 (
Dynamic range	iB
Wow and flutter . Limit of measurement (±0.001% W. PEA) or lower	% K)
Digital output Optical digital output Optical digital ja Coaxial digital output	ck ck
Other terminals	
Control in Minijack (3.5 c	э) ø)
Accessories	
Audio cable	
Video cableRemote control unit	
'AA" size (R6P) batteries	2
Power cord	
Operating Instructions	
Note: The specifications and design of this product are subject to change without notice, due to improvement.	

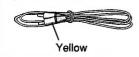
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Accessories





 Video Cable (VDE1053) (L = 1.5m)



 Power Cord (DV-47A: ADG7061) (DV-S733A/LBXJ: ADG7060)



 Power Cord (DV-S733A/WLXJ/NC, WLXJ/RD : ADG1154)



 Remote Control Unit (DV-47A: VXX2714)



 Remote Control Unit (DV-S733A: VXX2713)



Dry Cell Battery (R6P, AA)

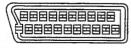


■ DV-747A

General

System
DVD-Video, DVD-Audio, DVD-R/RW, Video-CD, SACD, CD and
MP3 files
Power requirements 220-240 V, 50/60 Hz
Power consumption
Power consumption in standby mode 0.5 W
Weight 4.6 kg
Dimensions 420 (W) x 97.5 (H) x 278 (D) mm
Operating temperature+5°C to +35°C
Operating humidity 5% to 85% (no condensation)
6.16.1
S-Video output (2 individual outputs)
Y (luminance) - Output level
C (color) - Output level
Jacks S-VIDEO jack
Video output (2 individual outputs)
Video output (2 individual outputs)
Output level
Output level
Output level
Output level
Output level 1 Vp-p (75 Ω) Jacks RCA jack Component video output (Y, P _B , P _R) Output level Y: 1.0 Vp-p (75 Ω)
Output level
Output level 1 Vp-p (75 Ω) Jacks RCA jack Component video output (Y, P _B , P _R) Y: 1.0 Vp-p (75 Ω) Output level P _B , P _R : 0.7 Vp-p (75 Ω) Jacks RCA jacks 21-pin connector assignment
Output level
Output level 1 Vp-p (75 Ω) Jacks RCA jack Component video output (Y, P _B , P _R) Y: 1.0 Vp-p (75 Ω) Output level P _B , P _R : 0.7 Vp-p (75 Ω) Jacks RCA jacks 21-pin connector assignment

20 18 16 14 12 10 8 6 4 2



21 19 17 15 13 11 9 7 5 3 1

PIN no.

1	Audio	2/R	out	
7	A	7 /1	4	

11 G* out

Audio 1/L out GND

15 R* or C* out 17 GND

B* out

19 Video out or Y* out

Status

21 GND

* AV CONNECTOR 1 (RGB)-TV is output AV CONNECTOR 2 is not output

Audio output (2 pairs)

Output level During audio output...... 200 mVrms (1 kHz, -20 dB) Number of channels2 Jacks RCA jack

Audio output (multi-channel / L, R, C, SW, LS, RS)

Output level

During audio output...... 200 mVrms (1 kHz, -20 dB) Number of channels6 JacksRCA jack

Digital audio characteristics

Frequency response 4 Hz to 44 kHz (DVD fs: 96 kHz) 4 Hz to 88 kHz (DVD-Audio fs: 192 kHz) S/N ratio 118 dB Dynamic range 108 dB Wow and flutterLimit of measurement (±0.001% W. PEAK) or lower

Digital output

Optical digital output Optical digital jack Coaxial digital output RCA jack

Control out......Minijack (3.5 ø)

Accessories

Audio cable......1 Video cable 1 "AA" size (R6P) batteries2 Operating Instructions 1 Warranty card 1

Note: The specifications and design of this product are subject b change without notice, due to improvement.

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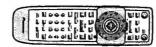
Accessories





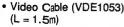
Power Cord

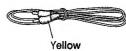
 Remote Control Unit (VXX2785)

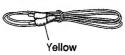


Dry Cell Battery (R6P, A.A)









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